



University of  
Massachusetts  
Lowell

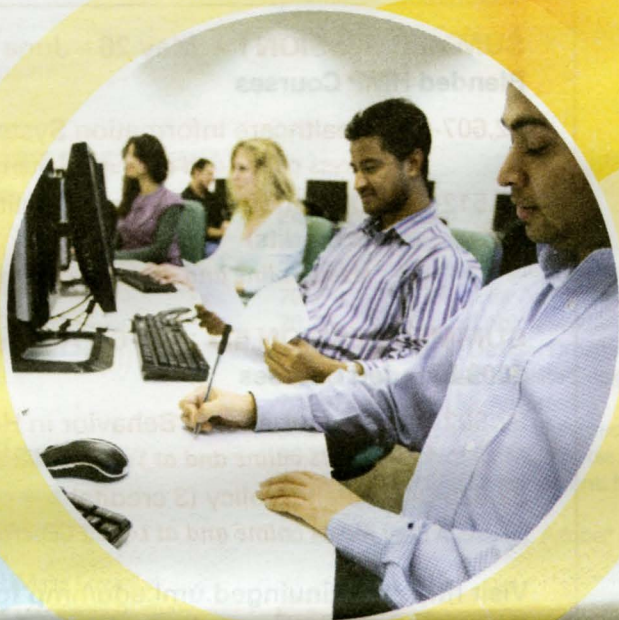
Continuing Studies, Corporate & Distance Education  
<http://continuinged.uml.edu>

2009

summer

Have the best  
of both worlds.

On Campus or Online



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Classes Begin May 26, 2009  
Undergraduate & Graduate Courses

- NEW! Study in Italy This Summer! See page 20.
- See pages 5 & 20 for our Summer Programs for Teachers

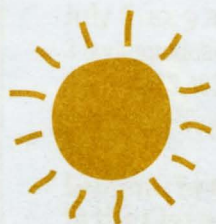
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Lowell

University of Massachusetts Lowell  
Continuing Studies, Corporate & Distance Education  
One University Avenue  
Lowell, MA 01854-2881  
(978) 934-2480



# This Summer, have the Best of Both WORLDS



Pursue your Education  
Online or On Campus!

## Mix & Match

This Summer UMass Lowell Students can have the "Best of Both Worlds." By "mix and matching" on-campus and online courses, students can choose classes that fit their individual learning styles and lifestyles.

## Take a Look at our Graduate School of Education Summer Offerings

Summer is a great time for teachers to pursue professional development or earn a graduate degree online. Also see page 20 for our special programs for Music Teachers and our new graduate course in "Professional Learning Communities."

## Advance Your Career with our New Online Graduate Engineering Courses

This Summer UMass Lowell will offer two new graduate courses in Electrical & Computer Engineering (16.508-031) Quantum Electronics for Engineers and (16.511-061) Medical Diagnostic Imaging.

## Ask Us About Blended Learning

Testimonials continue to confirm that our students value their on-campus experiences as well as the high level of interaction they receive online. If you are interested in learning more about how you can blend online and on-campus classes, take advantage of our information session listed below or visit our website at <http://continuinged.uml.edu/blended>.

## Study in Italy

This Summer UMass Lowell will offer courses in Italian Cinema and Culture in Matera, Italy. See page 20 for more information on this program.

## Take a Look at our Blended Healthcare Programs

This Summer the School of Health & Environment will continue to offer its Master's Program in Health Management plus several graduate certificates in a blended format developed specifically for healthcare professionals. Please see right for a listing of courses offered this Summer.

## Consider All Your Options

We hope you will take the time to review the hundreds of educational opportunities available in this bulletin to pursue your professional education this Summer.

## GRADUATE PROGRAMS FOR Healthcare Professionals

Interested in advancing your career  
as a health professional, but pressed  
for time?

Consider UMass Lowell's New Blended  
Program in Health Management & Policy.



## Earn a Master's Degree or Graduate Certificate in

### Health Management & Policy

Concentrations include:

- Health Management • Health Informatics
- Health Policy

## SUMMER SESSION I • May 26 – June 30, 2009

### Blended HMP Courses

- 32.607-041 Healthcare Information Systems (3 credits)  
*Meets online and at Lowell General Hospital in Tyngsboro, MA*
- 32.512-041 Operations Analysis & Quality Improvement  
(3 credits)  
*Meets online and at Yankee Alliance's Facility in Andover, MA*

## SUMMER SESSION II • July 6 – August 14, 2009

### 2009 Blended Courses

- 32.502-041 Organizational Behavior in Health Care (3 credits)  
*Meets online and at Yankee Alliance's Facility in Andover, MA*
- 32.625-041 Health Policy (3 credits)  
*Meets online and at Lowell General Hospital in Lowell, MA*

Visit <http://continuinged.uml.edu/hmp> for more details on  
these courses or the graduate degree & certificates in Health  
Management and Policy.

## PERSONALIZED STUDENT SERVICES AVAILABLE

# Continuing Education Information Session

MONDAY, APRIL 27, 2009 AT 1:00 P.M.



## EARLY BIRD INFORMATION SESSION

Continuing Studies Student Support Specialists will hold an Early Bird Information Session for those who would like to learn more about our programs and financial aid. All current students and prospective students are invited to participate. These presentations will be followed by an informal question and answer period.

- Monday, April 27, 2009 at 1:00 pm

CALL THE FACULTY AND STUDENT SUPPORT CENTER TODAY AT  
(978) 934-2474 TO RESERVE YOUR SPACE. YOU CAN ALSO VISIT  
OUR WEBSITE AT [HTTP://CONTINUINGED.UML.EDU](http://continuinged.uml.edu) TO LEARN MORE  
ABOUT OUR PROGRAMS.

## NEW STUDENT ORIENTATION

Wednesday, May 6, 2009 at 5:00 p.m. in the  
Faculty & Student Support Center.

CALL (978) 934-2474 TODAY TO RESERVE YOUR SEAT!  
NOTE: IF YOU ARE UNABLE TO ATTEND THIS ON CAMPUS SESSION,  
PLEASE SEE OUR WEBSITE FOR AN ONLINE ORIENTATION AT  
[HTTP://CONTINUINGED.UML.EDU/GENERAL/ADVISING.HTM](http://continuinged.uml.edu/general/advising.htm)

Continuing Studies Student Support Specialists will hold an Early Bird Information Session for those who would like to learn more about our programs and financial aid. All current students and prospective students are invited to participate. An overview presentation will be followed by an informal question and answer period.

Are you a new Continuing Studies student? Do you have questions about registration, tuition, financial aid, applying to a degree or certificate program, etc.? Find out how easy it is to get answers to questions such as:

- How do I select a course and check for prerequisites?
- How do I register?
- Am I able to enroll in a degree or certificate program?
- When do I pay for my courses?
- Where is my classroom located?
- How do I take a course online?
- How do I use the electronic library?

Call the Faculty and Student Support Center today at (978) 934-2474 to  
reserve your space. You can also visit our website at  
<http://continuinged.uml.edu/> to learn more about our programs.



# UNDERGRADUATE Certificate Programs

## Customize your undergraduate certificate

\* Many of the certificates are available on campus or online.

Our Continuing Education Certificate Programs get you one step closer to your degree, faster than you ever imagined possible.

Six to Ten Courses to a New Career.

Please note, UMass Lowell also offers several Online Graduate Certificate Programs. See page 5 for more details

## ONLINE GRADUATE Certificate Programs!

- Certificate in Behavioral Intervention in Autism
- Certificate in Forensic Criminology
- Certificate in Security Studies
- Certificate in Domestic Violence Prevention
- Certificate in Clinical Pathology
- Certificate in Plastics Engineering
- Certificate in Foundations of Business



### UNDERGRADUATE CERTIFICATES:

#### Creative Arts/Media APPLICATIONS

##### Multimedia Applications

Available on-campus and online

Use Towards a Degree in Information Technology!\*

The Multimedia Certificate Program at UMass Lowell is one of the largest, most comprehensive programs of study in multimedia available in New England. It draws upon the expertise of several departments, colleges, and centers within the University, as well as outside expertise from industry professionals. You can earn the Certificate in Multimedia Applications online or as a mix of online and on campus courses!

##### Required Courses: (4)

- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production
- 90.247 Web Authoring: Adobe® Flash™

##### Electives (Choose 2):

- 42.221 Writing for Interactive Media
- 70.262 Digital Imaging and Photography: Photoshop®
- 70.264 Computer Graphics and Illustration
- 70.291 Introduction to Graphic Design
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design and Development
- 70.385 Streaming Media for the Web
- 90.227 Developing Interactive Help Systems
- 90.238 Website Development: Microsoft® Expression® Web
- 90.250 E-Commerce on the Web
- 90.291 Introduction to DHTML
- 90.306 Introduction to XML
- 90.347 Rich Web Development with Flash® (Advanced)

##### Graphic Design & Digital Imaging

Use Towards a Degree in Information Technology or Liberal Arts!\*

This certificate program offers students interested in breaking into graphic design and electronic publishing an innovative mix of traditional design courses along with several courses in the latest publishing technologies. From traditional graphic design to designing for multimedia and the Web, students in the program complete numerous portfolio pieces geared towards the professional market.

##### Required Courses: (6)

- 70.291 Introduction to Graphic Design
- 70.240 Fundamentals of Typography
- 70.245 Desktop Publishing: Layout and Production
- 70.262 Digital Imaging and Photography: Photoshop®
- 70.391 Advanced Graphic Design
- 70.400 Portfolio Production Seminar

##### Electives (Choose 3):

- 70.264 Computer Graphics & Illustration
- 70.362 Advanced Digital Imaging
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design & Development
- 70.392 Design for Advertising
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.238 Website Development: Microsoft® Expression® Web
- 90.247 Web Authoring: Adobe® Flash®

##### NOW ONLINE!

- 70.379 Website Design
- 70.384 Advanced Website Design & Development

##### Website Design & Development

Available on-campus and online

Use Towards a Degree in Information Technology!\*

The Certificate Program in Website Design and Development is designed to provide students with the knowledge they need to design and implement effective, dynamic websites. Students pursuing this certificate program have the option of taking either the Web Design Track or the Web Development Track, depending on their particular area of interest. You can earn the Certificate in Website Design & Development entirely online, on campus, or by taking a combination of online and on campus courses.

##### Website Design Track

Note: Students pursuing the Website Design Track should have basic familiarity with HTML. Those who do not have basic familiarity with HTML are encouraged to take 90.291 Introduction to DHTML as one of their electives prior to taking the required courses in this program.

##### Required Courses: (4)

- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design & Development

- 90.231 Graphics for Multimedia and the Web
- 90.247 Web Authoring: Adobe® Flash®

##### Electives (Choose 2):

- 70.262\* Digital Imaging and Photography: Photoshop®
- 70.385\* Streaming Media for the Web
- 90.230 Introduction to Multimedia
- 90.238 Website Development: Microsoft® Expression® Web
- 90.248 Website Database Implementation
- 90.250 E-Commerce on the Web
- 90.291 Introduction to DHTML
- 90.292 Advanced DHTML
- 90.302 JavaScript
- 90.306 Introduction to XML
- 90.347 Rich Web Development: Advanced Flash®
- 90.348 Developing Dynamic Websites with ColdFusion®

\*70.262 and 70.385 are not currently available online.

##### Website Development Track

##### Required Courses: (4)

- 90.291 Introduction to DHTML
- 90.238 Website Development: Microsoft® Expression® Web
- 90.248 Website Database Implementation
- 90.306 Introduction to XML

##### Electives: (Choose 2):\*

- 70.379 Website Design: Dreamweaver®
- 70.384 Advanced Website Design and Development
- 70.385 Streaming Media for the Web
- 90.227 Developing Interactive Help Systems
- 90.245 Website Server Administration
- 90.246 Active Server Pages .NET
- 90.247 Web Authoring: Adobe® Flash®
- 90.250 E-Commerce on the Web
- 90.292 Advanced DHTML
- 90.301 Java Programming
- 90.302 Java Script
- 90.305 Introduction to Perl
- 90.347 Rich Web Development with Advanced Flash®
- 90.348 Developing Dynamic Websites with ColdFusion®

\*Note: Other 90.xxx courses may be substituted as electives for the Website Development Track with prior approval from the certificate program coordinator.

#### Free software

Get Free Microsoft® Developer Software when you register for certain UMass Lowell courses! Refer to the courses with the icon designating applicable courses.

For a complete list of all applicable courses and other information, please visit <http://continuinged.uml.edu/msdnaa.htm>

#### Additional Certificate Programs

UMass Lowell also offers certificate programs in:

- Land Surveying
- Manufacturing Technology
- Nutrition
- Paralegal Studies
- Spanish and Latin American Studies
- Wastewater Treatment
- Water Treatment

\* Many of the courses in these certificate programs can be applied towards a part-time degree. See page 6 or visit our website for more information on degrees. For information on how to apply these courses into your degree, call our Student Support Specialists at (978) 934-2474.





## Technical Writing

Available on-campus and online

Use Towards a Degree in Information Technology!★

Those with strong writing skills and an aptitude for computers are encouraged to enter this program. Taught by practicing professionals from the high tech industry, students learn to use the most current technologies and processes.

### Required Courses: (4)

- 42.408 Principles of Technical Writing
- 42.412 Software Writing
- 42.413 Advanced Software Writing
- 90.306 Introduction to XML

### Electives (Choose 2):\*\*

- 42.221 Writing for Interactive Media
- 90.227 Developing Interactive Help Systems
- 90.228 Introduction to Adobe® FrameMaker
- 90.291 Intro to DHTML

\*\* This is a partial list of elective courses. For a complete list of courses that may be applied as electives, see the Continuing Studies website for computer courses with a 90. OR 92. prefix, or contact the Faculty and Student Support Center at (978) 934-2474.



## Information Technology



## Contemporary Communications

Available on-campus and online

Use Towards a Degree in Information Technology or Liberal Arts!★

The Contemporary Communications Certificate is intended as an introductory certificate to prepare students for work in a rapidly changing, information-driven workplace. Students will develop skills in research, analysis, writing, graphic presentation of material, and the use of technology as a tool for communication.

### Required Courses: (4 plus 2 electives)

#### Written Communication (Choose 1):

- 42.221 Writing for Interactive Media
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism

#### Computer-Based Communications (Choose 1):

- 90.160 Introduction to Information Systems
- 90.238 Website Development: Microsoft® Expression® Web
- 90.291 Intro to DHTML
- 91.113 Exploring the Internet

#### Strategic Thinking & Effective Communication (Choose 1):

- 45.202 Introduction to Logic
- 46.210 Media and Politics
- 62.201 Marketing Principles
- 90.250 E-Commerce on the Web
- 90.460 Computer Ethics

#### Multimedia/Graphic Design and Development (Choose 1):

- 70.291 Introduction to Graphic Design
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production

#### Electives (Choose 2 not already taken):

- 42.221 Writing for Interactive Media
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism
- 45.202 Introduction to Logic
- 45.205 Argumentation and Rhetoric
- 45.207 Corporate Communications
- 45.356 The History, Theory, and Practice of Rhetoric
- 46.210 Media and Politics
- 46.316 Politics and Film
- 62.201 Marketing Principles
- 70.291 Introduction to Graphic Design
- 90.160 Introduction to Information Systems
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the Web
- 90.232 Desktop Video Production
- 90.238 Website Development: Microsoft® Expression® Web
- 90.250 E-Commerce on the Web
- 90.291 Intro to DHTML
- 90.460 Computer Ethics
- 91.113 Exploring the Internet



## Information Technology

Available on-campus and online

Use Towards a Degree in Information Technology!★

The need for professionals with a strong information technology background will continue to increase as business, government, schools, and other organizations seek new applications for computers and networks in the workplace. This certificate is designed as an introductory program for those who want to explore a broad range of electives in different subject areas before deciding on an area of specialization.

For more information on any of these certificate programs visit our Website at <http://continuinged.uml.edu> or call (978) 934-2474.

### Required Courses: (2)

- 90.160 Introduction to Information Systems\*
- 90.202 Microsoft® Office\*

### Electives (Choose 4):\*\*

#### Programming Electives:

- 90.211 Introduction to Programming with C, Part I
- 90.212 Introduction to Programming with C, Part II
- 90.220 Visual Basic
- 90.267 C Programming
- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.270 Visual C++
- 90.364 Problem Solving with C

#### Database Electives:

- 90.171 Applications Software: Microsoft® Access
- 90.342 Web-Enabled Database Development
- 90.474 Relational Database Concepts

#### Multimedia/Web Electives:

- 90.230 Introduction to Multimedia
- 91.113 Exploring the Internet

#### Additional Electives:

- 90.311 Introduction to the UNIX Operating System
- 90.312 Shell Scripting
- 90.461 LAN/WAN Technologies

\*Students with appropriate experience can replace the required courses with any of the electives courses.

\*\*Note: This is a partial list. For the complete list of courses that may be applied as electives, see the Continuing Studies website for computer courses with the 90. prefix, or contact the Faculty and Student Support Center at 978-934-2474.



## Data/Telecommunications

Available on-campus and online

Use Towards a Degree in Information Technology!★

The Certificate Program in Data/Telecommunications trains participants for positions as entry-level network administrators, LAN technicians, and system analysts responsible for network functions in large or small companies.

### Required Courses: (5)

- 90.267 C Programming
- 90.457 Network Security
- 90.461 LAN/WAN Technologies
- 90.462 TCP/IP and Network Architecture
- 90.464 Network Management



## Database Management Technologies

Available on-campus

Use Towards a Degree in Information Technology!★

The Database Management Technologies Certificate program, as part of Oracle Corporation's Academic Initiative (OAI), prepares students for the requirements and rigors of becoming an in-demand Database Administrator or Developer. Centered on the industry-leading Oracle 10g/11i™ product suite, students engage in a progressive learning experience. Hands-on skill building throughout the program will prepare students for challenging and highly rewarding positions in today's data-driven industry.

### Required Courses: (4)

- 90.450 Database Administration I: Introduction to Oracle 10g
- 90.453 Database Administration II: Advanced Oracle 10g
- 90.454 Oracle 10g SQL Development
- 90.459 PL/SQL I: Introduction to Oracle 10g PL/SQL

\*Note: Students with experience equivalent to any of the required courses may substitute up to two electives for the required courses, with prior approval of the program coordinator.

(Choose 3 Electives from either of the following Tracks):

#### Electives: Developer Track

- 90.448 Oracle 10g Portal Development
- 90.449 Oracle 10g Forms and Reports
- 90.467 PL/SQL II: Advanced Oracle 10g PL/SQL
- 90.474 Relational Database Concepts

#### Electives: Administrator Track

- 90.443 Introduction to Client/Server Computing
- 90.455 Database Administration III: Oracle 10g Projects
- 90.466 Oracle 10g Data Warehousing
- 90.479 Oracle 11i Applications DBA

Note: If you would like to, you may choose one elective course from one of the tracks and two elective courses from the other track, as long as you take a total of three elective courses in addition to the required courses above.

**NEW! UNIX Certificate available in accelerated and online format.**



## UNIX®

Available on-campus and online

Use Towards a Degree in Information Technology!★

The Certificate in UNIX is designed for those currently in the computer industry who want to upgrade their skills, and for those with basic computer literacy who want to enter this fast-growing field. Students learn skills that are immediately applicable in the workplace as well as C Programming, the language in which most networking software is written.

### Required Courses: (4)

- 90.267 C Programming
- 90.311 Introduction to the UNIX Operating System
- 90.312 Shell Scripting
- 90.360 Introduction to Data Structures

### Electives (Choose 2):

- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.313 UNIX Internals Overview
- 90.316 UNIX System Administration
- 90.318 Advanced UNIX Internals/Tuning
- 90.319 Introduction to Linux
- 90.321 Linux System Administration



## Engineering Technology

**Now Available Entirely Online!**



## The Certificate in Computer-Assisted Manufacturing

For those who have basic drawing experience and want to expand their knowledge in the latest industry-standard CAD software applications that are in use today. Note: students who don't have basic drawing experience must take 23.101 Engineering Graphics (on campus) or equivalent.

### Required Courses: (4)

- 23.200 Computer Aided Drafting-AutoCAD®
- 23.480 Computer Aided Design-AutoDesk® Inventor
- 23.484 Intro to Pro/ENGINEER®
- 23.485 Intro to SolidWorks®

Note: see website for software/hardware requirements.

For further information contact Professor

Robert Tuholski at (978) 934-2593 or email

Robert\_Tuholski@uml.edu



## Plastics Engineering Technology

Use Towards a Degree in Engineering Technology!★

The Plastics Engineering Technology Certificate provides professional training in plastics industry theory and technology. Students are given practical instruction applicable to materials, processing, and design engineering. Courses are taught by the Department of Plastics Engineering's staff of international experts. This program is designed to serve adult students already working in positions in plastics or packaging who need formal education in their work areas. Some of the courses in this certificate can be applied towards the B.S. Degree in Mechanical Engineering Technology: Plastics Option.

### Required Courses: (5)

- 27.201 Plastics Material Science I (Commodity Thermoplastics)
- 27.202 Plastics Material Science II (Engineering Thermoplastics)
- 27.219 Introduction to Plastics Processing
- 27.331 Injection Molding
- 27.345 Principles of Extrusion

Electives: (Choose 2 plastics engineering technology elective courses with a 27. prefix)



## Criminal Justice



## Security Management and Homeland Security

Use Towards a Degree in Criminal Justice!★

Since September 11th, the U.S. Department of Labor has been predicting that the employment of security management personnel will grow faster than all other occupations due to the threat of terrorism. This part-time certificate program is designed for personnel working in the areas of public safety, security management, and law enforcement; executives in corporations responsible for overseeing in-house security programs; and information technology professionals.

### Required Courses: (4)

- 44.115 Introduction to Homeland Security
- 44.241 Physical Security
- 44.312 Security Management
- 90.385 Introduction to Information Security (Cyber Security)

### Electives (Choose 2):

- 44.212 Weapons of Mass Destruction
- 44.234 Criminal Law
- 44.248 Terrorism
- 44.326 Domestic Terrorism and Hate Crimes
- 44.342 Criminal Profiling
- 44.343 Forensic Psychology
- 44.380 Selected Issues in Criminal Justice

★ Many of the courses in these certificate programs can be applied towards a part-time degree. See page 6 or visit our website for more information on degrees. For information on how to apply these courses into your degree, call our Student Support Specialists at (978) 934-2474.



FIND OUT HOW EASY IT IS TO TAKE  
A COURSE OR COMPLETE YOUR

# DEGREE ONLINE!

\* Graduate & Undergraduate

\* Fully Accredited

\* Affordable Tuition

With UMass Lowell's online education program, you can take classes from the convenience of your home or office! Register for one or two courses, or pursue a degree or certificate program entirely online.



## Online Undergraduate Degree Programs

- \* Associate's Degree in Information Technology
- \* Bachelor's Degree in Information Technology
- \* Bachelor's Degree in Information Technology: Business Minor
- \* Bachelor's Degree in Liberal Arts
- NEW!** \* Bachelor's Degree in Psychology

## Online Graduate Degree Programs

- NEW!** \* Administration, Planning & Policy (C.A.G.S.)
- NEW!** \* Reading and Language (C.A.G.S.)
- NEW!** \* Curriculum & Instruction: Education of Diverse Populations (C.A.G.S.)
- \* Master's Degree in Reading and Language
- \* Master's Degree in Educational Administration
- \* Master's Degree in Criminal Justice
- \* Master's Degree in Business Administration (Online MBA)
- \* Master's Degree in Curriculum & Instruction
- \* Master's Degree in Curriculum and Instruction with a concentration in Science Education
- \* Master's Degree in Curriculum & Instruction with an Autism Studies Option

## Online Undergraduate Certificate Programs

- \* Certificate in Contemporary Communications
- \* Certificate in Multimedia Applications
- \* Certificate in UNIX
- \* Certificate in Information Technology
- \* Certificate in Data/Telecommunications
- \* Certificate in Paralegal Studies
- \* Certificate in Security Management and Homeland Security
- \* Certificate in Website Design and Development

## Online Graduate Certificate Programs

- \* Certificate in Behavioral Intervention in Autism
- \* Certificate in Security Studies
- \* Certificate in Clinical Pathology
- \* Certificate in Foundations of Business
- \* Certificate in Forensic Criminology
- \* Certificate in Domestic Violence Prevention
- NEW!** \* Certificate in Plastics Engineering Fundamentals

Call (978) 934-2474 or visit <http://continuinged.uml.edu/online> to test drive an online course today! **Note:** The University of Massachusetts System offers additional courses and programs online. Visit [www.UMassOnline.net](http://www.UMassOnline.net) for more details.

Please note: There are no veteran or senior citizens waivers for online courses. Please refer to page 19.

## EARN YOUR MBA ONLINE!

UMass Lowell's College of Management, a leader in quality management education and accredited by the top business accreditation association, recently announced that they are making their popular on campus MBA program now available online as well so that students both near and far can benefit from the program's commitment to excellence.

### Master of Business Administration — Earn Your MBA Online, On Campus or Both!

<http://continuinged.uml.edu/online/mba/>

Designed to prepare managers to effectively lead organizations in rapidly changing and diverse regional, national, and global competitive environments, the MBA program at UML integrates theory and practice, using case studies, experiential learning techniques, and field programs applicable to a wide variety of commercial, industrial and not-for-profit settings. The degree is available entirely online, on campus, or as a mix of online and on campus courses. Concentrations are offered in Accounting, Finance, Information Technology or General Business.

### Foundations of Business Graduate Certificate Program

<http://continuinged.uml.edu/online/foundofbusiness.htm>

Consisting of six 2-credit courses, this graduate-level certificate program is designed to provide students with a thorough knowledge of the traditional functional areas of business that an undergraduate business degree offers. This program offers an excellent opportunity for people with non-business backgrounds to earn a graduate-level certificate while they attain the appropriate foundation knowledge required for the MBA. Completion of this certificate program satisfies the foundation portion of the MBA program for those going on to earn their MBA degree.

For more information, contact Gary Mucica, Director of Management Graduate Programs, (978) 934-2853 or Kathleen Rourke, Coordinator of Management Graduate Programs, (978) 934-2848.



UMass Lowell's College of Management was recently featured in the Princeton Review's "Best 296 Business Schools, 2009 Edition"



UMass Lowell's College of Management is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International. AACSB is the world's premier accrediting agency for bachelor's, master's and doctoral degree programs in business administration, management and accounting.

## EARN A MASTER'S OR C.A.G.S. DEGREE IN EDUCATION ONLINE!

UMass Lowell's Graduate School of Education is one of the leading providers of online graduate Education programs in New England. They now offer several Master's and C.A.G.S. degrees in a number of areas. All of the programs are 30 credits. Students may take up to four graduate courses on a non-matriculated basis after consultation with the program director, Vera Ossen who may be contacted at [Vera\\_Ossen@uml.edu](mailto:Vera_Ossen@uml.edu)

### • Educational Administration, M.Ed.

Designed to meet the needs of experienced practitioners who wish to broaden and deepen their professional knowledge.

Available Tracks: Massachusetts Teacher Licensure — Principal/Assistant Principal, and Out-of-State, Non-Licensure Track

### • Reading and Language, M.Ed.

For educators who seek to gain the knowledge base required for teachers of reading.

Available Tracks: Massachusetts Teacher Licensure — Teacher of Reading, and Out-of-State, Non-Licensure Track

### • Curriculum and Instruction, M.Ed.

For experienced educators interested in using their knowledge to improve teaching and enhance the curriculum development process within their school system.

Note: A special Science Education option is available.

### • Curriculum and Instruction, C.A.G.S.

A practitioner-oriented degree program for experienced educators who hold a master's degree and teacher licensure. The focus is on knowledge, skills, and dispositions required to work effectively with students from diverse backgrounds.

### • Administration, Planning and Policy with Principal Licensure, C.A.G.S.

Only open to teachers working in Massachusetts schools and who hold a Massachusetts initial or professional teaching license.

### • Reading and Language with Teacher of Reading Licensure, C.A.G.S.

Only open to teachers working in Massachusetts schools and who hold a Massachusetts initial or professional teaching license.

For more details on these graduate degree programs in Education, visit <http://continuinged.uml.edu/education/>

For general information or an admissions packet, email us at [edoffice@uml.edu](mailto:edoffice@uml.edu)

## REQUIREMENTS AND REGISTRATION PROCEDURES FOR ONLINE COURSES

**Online Education Course Registration** Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. See the registration information on page 20 and the Registration Form for New Students at <http://continuinged.uml.edu>. The new registration form also contains a user-friendly checklist to help you through the registration and course login process. Note: Please be sure to provide your email address when you register!

**Student Usernames and Passwords:** All online students must obtain their online course usernames and passwords by visiting <http://continuinged.uml.edu/online> and clicking on the "Get your online username & password here" link. Usernames and passwords become available two business days after registering for an online course. The process for obtaining online course usernames and passwords is usually made available to students approximately three weeks prior to the start of the semester.

**All Online Students** are encouraged to review the Online Education website at <http://continuinged.uml.edu/online> to view course software and textbook requirements, course outlines, chat hours and other course specific information. Online courses require weekly participation and assignments. Online students can expect to spend 6-10 hours per course each week engaged in course related activities.

**Student Technical Skills and Requirements** All students new to Online Education should complete the free "Test Drive a Course" demo available on the Online Education Website. Some online courses require additional software. Students are responsible for learning to use course-related software before enrolling in an Online Education course. Tutorials are available on the Online Education Website.

**Online Course Software Requirements** — Be sure to check our website at <http://continuinged.uml.edu/online> to confirm course software requirements. For the latest information regarding our online courses and programs, visit our website at <http://continuinged.uml.edu/online> or call (978) 934-2474.



THIS SUMMER

# Accelerate your progress towards your degree ON CAMPUS, ONLINE, OR BOTH!

## UNDERGRADUATE DEGREE PROGRAMS

The following degree programs are available on a part-time, evening basis:

### COLLEGE OF ENGINEERING

#### Associate's Degrees

Civil Engineering Technology  
Civil Engineering Technology:  
Surveying Option  
Electronic Engineering  
Technology  
Mechanical Engineering  
Technology

#### Bachelor's Degrees

Civil Engineering Technology  
Electronic Engineering Technology  
Mechanical Engineering Technology

### COLLEGE OF ARTS AND SCIENCES

#### Associate's Degree

Information Technology

#### Bachelor's Degrees

Applied Mathematics  
Criminal Justice  
Criminal Justice: Paralegal Option  
Information Technology  
Information Technology:  
Business Minor Option  
Liberal Arts

Mathematics

Mathematics: Statistics Concentration

Mathematics: Teacher Concentration

**NEW!** Psychology

### COLLEGE OF MANAGEMENT

#### Associate's Degree

Management

#### Bachelor's Degree

Business Administration

For more information on any of these degree programs visit our Website at <http://continuinged.uml.edu> or call (978) 934-2474

## Summer 2009

### Earn a Bachelor's Degree in Psychology **ONLINE** —

Take fully online or on campus!

- One of UMass Lowell's most popular degree programs for those interested in the social sciences



**The Psychology curriculum acquaints students with scientific methods and psychological studies.** It provides students with theoretical foundations in various subfields of psychology: experimental, developmental, social, personality, and clinical psychology. The curriculum emphasizes the application of psychological knowledge and skills in many areas of human functioning. For further information, visit <http://continuinged.uml.edu/online/psychology>

### EARN A BACHELOR'S DEGREE IN

## Liberal Arts

Students whose education plans were interrupted are perfect candidates for UMass Lowell's part-time Liberal Arts Degree. The Bachelor of Liberal Arts (BLA) degree is designed to provide students with a balanced liberal arts curriculum, while also exposing them to an in-depth study in areas of concentration such as psychology, history, art history, women's studies, english, and legal studies.

Students choose two concentration areas:

1. Psychology Concentration  
Available on campus and online
2. Art History Concentration  
Available on campus and online
3. Women's Studies Concentration  
Available on campus and online
4. Legal Studies Concentration  
Available on campus and online
5. History Concentration  
Available on campus and online
6. English Concentration  
Available on campus and online

Email [Continuing\\_Education@uml.edu](mailto:Continuing_Education@uml.edu) or call (978) 934-2474 for our new Liberal Arts brochure. Additional information on the Bachelor's Degree in Liberal Arts can also be found at <http://continuinged.uml.edu/degrees/bladegree.htm>

### EARN A BACHELOR'S DEGREE IN

## Engineering Technology

Civil Engineering Technology • Electronic Engineering Technology  
Mechanical Engineering Technology

**Engineering Technology is your path to success...**

For more information on our part-time degree programs in Engineering Technology, visit <http://continuinged.uml.edu/engtech>. For a free brochure call (978) 934-2143 or email [Continuing\\_Education@uml.edu](mailto:Continuing_Education@uml.edu)

### EARN A BACHELOR'S DEGREE IN

## Information Technology

*"I knew I had to get a high-demand credential and that I had to do it quickly. By taking a mix of online and on-campus courses, I was able to accelerate my progress towards earning a degree in Information Technology."*

Valerie Cox, Recent Graduate

For more information on our B.S. in Information Technology, please visit our website or call the Faculty and Student Support Center at (978) 934-2474.

### EARN A 2ND BACHELOR'S DEGREE IN

## Information Technology

Interested in changing careers? If you already have a Bachelor's Degree and would like to pursue a second degree in Information Technology, UMass Lowell has a special program for you. Students can pursue a Second Bachelor's in IT by taking 10 additional IT courses in designated areas. See our website at <http://continuinged.uml.edu/degrees/2ndBSIT.htm> for more information.

## NEW! BS to MS Program

Interested in making yourself more marketable in the IT marketplace? Consider the Bachelor's to Master's Option in Health Management and Policy with a concentration in Health Informatics. See our website for more details.



# CUSTOMIZED TRAINING

*Designed to meet your company's business needs*

\* [HTTP://CONTINUINGED.UML.EDU/CORPORATE](http://continuinged.uml.edu/corporate)

With a large selection of courses and expert instructors, the University of Massachusetts Lowell serves as an important educational resource for companies both nationally and internationally. The University — which is particularly well-known for its Engineering, Information Technology, Computer Science, Health, Management, and Manufacturing programs — provides training to employees on campus and at numerous company locations.

A variety of training areas are available, and UMass Lowell can develop customized training programs that feature the industry-specific software and technologies your company uses most! Call (978) 934-2495 to speak with a corporate training specialist. For a list of training areas visit <http://continuinged.uml.edu/corporate>.

## Working With Business & Industry

UMass Lowell is constantly exploring new models for collaboration with business and industry. Whether it's collaborating on a workforce training grant, or working together with companies to develop cutting-edge training programs for their employees, the University is actively contributing to growing a workforce knowledgeable in industry-relevant technologies.

Contact us at (978) 934-2495 or email [Catherine\\_Kendrick@uml.edu](mailto:Catherine_Kendrick@uml.edu) to discuss potential opportunities for program collaboration.



**UMass Lowell is now a PMI® approved Registered Education Provider**

For additional information, visit <http://continuinged.uml.edu/corporate/projectmanagementcertificate.htm>

### Project Management Non-credit Certificate\* To register call 978-934-2405!

#### REQUIRED SEMINARS:

##### Project Management: Planning and Scheduling

CRS #00.608-043  
Two Days; Meets 9am-4pm;  
Thursday/Friday, May 7, 8  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14

##### Project Management: Resources and Budgeting

CRS #00.609-043  
Two Days; Meets 9am-4pm;  
Thursday/Friday, June 4, 5  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14

##### Risk Management (offered twice)

Section 1: CRS #00.614-042  
Four Evenings; Meets 6pm-9:30pm;  
Wednesdays, April 29, May 6, 13, 20  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14  
Section 2: CRS #00.614-043  
Two Days; Meets 9am-4:00pm;  
Thursday/Friday, June 25, 26  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14

#### ELECTIVES SEMINARS (Choose 3):

##### Project Management Boot Camp

CRS #00.613-042  
One Day; Meets 9am-4pm; Friday,  
May 1  
Held on Lowell Campus; Tuition: \$475;  
CEUs: .7; PDUs: 7

##### MS Project 2007

CRS #00.610-042  
Two Days; Meets 9am-4pm;  
Thursday/Friday, June 11, 12  
Held on Lowell Campus; Tuition: \$850;  
CEUs: 1.4; PDUs: 14

##### Building High Performance Teams

CRS #00.615-041  
Two Evenings; Meets 6pm-9:30pm;  
Tuesdays, April 7, 14  
Held on Lowell Campus; Tuition: \$475;  
CEUs: .7; PDUs: 7

##### Effective Organizational Skills

CRS # 00.617-041  
One Day; Meets 9am-4pm; Friday, April 17  
Held on Lowell Campus; Tuition: \$475;  
CEUs: .7; PDUs: 7

#### Negotiation Skills

CRS #00.618-041  
Two Days; Meets 9am-4pm;  
Thursday/Friday, May 28, 29  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14

#### Leadership Skills

CRS #00.616-041  
One Day; Meets 9am-4pm;  
Friday, June 19  
Held on Lowell Campus; Tuition: \$475;  
CEUs: .7; PDUs: 7

#### Project Management

**Capstone Seminar**  
CRS #00.623-041  
Two Days; Meets 9am-4pm;  
Thursday/Friday, May 14, 15  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4; PDUs: 14

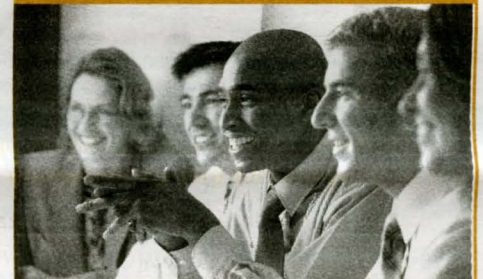
#### Conflict Resolution

CRS #00.624-041  
Two Evenings; Meets 6pm-9:30pm;  
Wednesdays, June 3, 10  
Held on Lowell Campus; Tuition: \$475;  
CEUs: .7; PDUs: 7

### Optional Seminar

## PMP Exam PREP

NEW FORMAT! Offered Evenings



UMASS LOWELL  
Project Management

### Optional Seminar: PMP Exam Preparation

CRS# 00.621-042  
Four Evenings; Meets 6pm-9:30pm;  
Tuesday/Thursday, May 12, 14, 19, 21  
Held on Lowell Campus; Tuition: \$775;  
CEUs: 1.4

\*Learn how you can apply these seminars towards a project management certificate by visiting our website at <http://continuinged.uml.edu>. Seminars may be taken individually or applied towards a project management certificate. For a Project Management brochure call 978-934-2473. **Courses can also be offered onsite at your company.**

## INTERESTED IN ONSITE TRAINING AT YOUR FACILITY?

UMass Lowell provides customized training solutions for companies onsite at their facility, including but not limited to:

#### Credit Certificate Programs\*

Electronics Technology  
Manufacturing Technology  
Plastics Engineering Technology

*\*Certificate courses may be applied to Associate and Bachelor Degree Programs.*

#### Noncredit Training

GD&T  
LabView  
PLC  
Plastics Technology  
Basic Advanced Electronics  
Project Management

To find out more about having UMass Lowell offer courses at your company, contact Joanne Talty at 978-934-2144 or [Joanne\\_Talty@uml.edu](mailto:Joanne_Talty@uml.edu)



## INTERESTED IN ON-SITE PLASTICS TRAINING?

UMass Lowell is one of the nation's leading universities in plastics. The Plastics Engineering Department has gained worldwide recognition for its state-of-the-art training, research, and experienced faculty who travel nationally and internationally conferring on newly developed concepts and consulting with plastics industry leaders.

You can attend our plastics seminars on campus or ask about having our plastics engineering faculty deliver training on-site to your employees! Call 978-934-2144 for information about our onsite training programs!

Call (978) 934-2405 today for a free copy of our Plastics Seminars & Workshops brochure or visit <http://continuinged.uml.edu/plastics>



UNDERGRADUATE CREDIT COURSES

May 26–June 30  
Summer Session I

**Day Classes** begin on May 26 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.  
**M/W Evening Classes** begin on May 27 and include 3 FRIDAYS: May 29, June 12 and June 26 at the regularly scheduled hours.  
**T/Th Evening Classes** begin on May 26 and include 2 FRIDAYS: June 5 and June 19 at the regularly scheduled hours.

Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

ISIS Class No.	Course No.	Title	Cr Days	P: Prerequisite Time	(Con)	C: Corequisite/Comments	Instructor
ACCOUNTING							
1867	60.201-011	Accounting/Financial	T/Th	6:00-9:15 pm	3		Charles F. Thompson
1952	60.201-061	Accounting/Financial (5/26-7/31/09)	> Online Course		3		Clairmont Carter
1868	60.202-011	Accounting/Managerial	T/Th	6:00-9:15 pm	3	P: 60.201	Lisa Andrusaitis
2128	60.331-011*	Cost Management Systems	T/Th	6:00-9:15 pm	3	P: 60.202; BSBA students (non-Accounting majors) and COM Dean permission	Laura Christianson
*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form." Please visit <a href="http://continuinged.uml.edu/general/information.htm">http://continuinged.uml.edu/general/information.htm</a> to fill out the form online.							
ART/COMPUTER GRAPHICS							
1962	70.379-061	Website Design: Macromedia® Dreamweaver® (5/26-7/31/09)	> Online Course		3	P: Basic HTML and Photoshop familiarity; requires Dreamweaver and Photoshop CS3 or CS4	Christopher Perry
2019	70.384-061	Advanced Website Design and Development (5/26-7/31/09)	> Online Course		3	P: 70.379; requires Dreamweaver CS3 or CS4	Department Faculty
2618	70.391-011	Advanced Graphic Design	M/W	6:00-9:45 pm	3	P: 70.291, 70.245 and 70.240, or instructor permission (no Friday meetings required)	Mark Hartshorn
2619	70.400-021	Portfolio Production Seminar (5/26-8/14/09)	Tues	6:00-9:00 pm	3	P: 70.291, 70.240, 70.245 and 70.391, or instructor permission	Thomas Mungovan
Note: While the above courses will not transfer directly into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval. CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
ART HISTORY							
2012	58.101-011	Art Appreciation	M/W	7:00-10:15 pm	3	AHD	Jennifer Cadero-Gillette
2620	58.203-061	History of Art I: Prehistoric to Medieval Art (5/26-7/31/09)	> Online Course		3	AHD	Liana Cheney
2621	58.204-061	History of Art II: Renaissance to Modern Art (5/26-7/31/09)	> Online Course		3	AHD	Liana Cheney
BIOLOGICAL SCIENCES							
2121	83.101-011	Life Science I	T/Th	6:00-9:15 pm	3	SCL	Phuong-son Nguyen
3003	83.106-061 NEW!	Human Biology (5/26-7/31/09)	> Online Course		3		Gail Skinner-Brassard
1965	83.214-061	Human Ecology (5/26-7/31/09)	> Online Course		3	SCL	Priscilla Mattson
1966	83.214-062	Human Ecology (5/26-7/31/09)	> Online Course		3	SCL	Priscilla Mattson
CHEMISTRY							
1967	84.101-061	Applied Chemistry for Non-Scientists (5/26-7/31/09)	> Online Course		3	SCL	Philip Lamprey
1968	84.101-062	Applied Chemistry for Non-Scientists (5/26-7/31/09)	> Online Course		3	SCL	Philip Lamprey
1878	84.111-011	General Chemistry I	T/Th	7:00-10:15 pm	3	C: 84.113; SCL	Daniel Lavoie
1879	84.113-011	General Chemistry Laboratory I	T/Th	3:30-6:45 pm	1 (3)	C: 84.111; SCL	Paul Damour
1880	84.121-011	Chemistry I	M/W	7:00-10:15 pm	3		Stephen Theberge
1881	84.122-011	Chemistry II	M/W	7:00-10:15 pm	3	P: 84.121; C: 84.124; SCL	Kim Shih
1882	84.123-011	Chemistry I Laboratory	T/Th	7:00-10:15 pm	1 (3)	C: 84.121 SCL	Paul Damour
2098	84.123-012	Chemistry I Laboratory	T/Th	7:00-10:15 pm	1 (3)	C: 84.121 SCL	Daniel Pyburn
1883	84.124-011	Chemistry II Laboratory	T/Th	7:00-10:15 pm	1 (3)	C: 84.122; SCL	Theodore Coletta
1884	84.221-011	Organic Chemistry I (IA)	M/T/Th	2:45-5:15 pm	3	P: 84.122; C: 84.229	Gene Davis
1885	84.221-012	Organic Chemistry I (IA)	T/Th	7:00-10:15 pm	3	P: 84.122; C: 84.229	Gene Davis
1886	84.229-011	Organic Chemistry IA Laboratory	M/W	6:00-10:15 pm	1 (4)	C: 84.221	Judith Freeman
1887	84.229-012	Organic Chemistry IA Laboratory	T/Th	6:00-10:15 pm	1 (4)	C: 84.221	Judith Freeman
CIVIL ENGINEERING							
2085	14.204-011	Strength of Materials (alternate 22.212)	M-Th	8:00-10:15 am	3	P: 14.203	John McKelliget
CLIENT SERVER TECHNOLOGY							
(See courses listed under Information Technology) CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)							
COMPUTER SCIENCE							
2300	91.101-021	Computing I (5/26-8/14/09)	M-F	10:00-11:15 am	4		James Canning
2926	91.113-011	Exploring the Internet	T/Th	6:00-9:15 pm	3	Non-CS Majors only	Jose Annunziato
2927	91.113-012	Exploring the Internet	T/Th	9:00 am-12:15pm	3	Non-CS Majors only	Beibei Yang
2925	91.113-061	Exploring the Internet (5/26-7/31/09)	> Online Course		3	Non-CS Majors only	Patrick Krolak
2193	94.301-021*	Organization of Programming Languages (5/26-8/14/09)	Tues	5:30-8:30 pm	3		Krishnan Seetharaman
2191	94.305-021*	Computer Architecture (5/26-8/14/09)	Mon	5:30-8:30 pm	3		David Hendrickson
3013	94.404-021*	Analysis of Algorithms (5/26-8/14/09)	Wed	5:30-8:30 pm	3		Department Faculty
*Requires permission of Graduate Computer Science Coordinator							
CRIMINAL JUSTICE							
2622	44.101-011	Introduction to Criminal Justice	M/W	6:00-9:15 pm	3		Steven Sacco
2236	44.115-061	Introduction to Homeland Security (5/26-7/31/09)	> Online Course		3		Robert Sojka
2155	44.221-011	Criminology I	T/Th	6:00-9:15 pm	3		Joseph Burke
2182	44.223-011	Crime and the Media	T/Th	6:00-9:15 pm	3		Frank Mazzaglia
2623	44.233-011	Criminal Procedure	M-Th	1:00-3:15 pm	3		David McCauley
2624	44.234-011	Criminal Law	M-Th	10:30 am-12:45 pm	3		David McCauley
2152	44.241-061	Physical Security (5/26-7/31/09)	> Online Course		3		Gail Beaudoin
2153	44.248-011	Terrorism	M-Th	10:30 am-12:45 pm	3		Department Faculty
2625	44.248-061	Terrorism (5/26-7/31/09)	> Online Course		3		Brian LeBlanc
2285	44.312-011	Security Management	M-Th	1:00-3:15 pm	3		Ofer Zmiri
2238	44.326-061	Hate Crime (5/26-7/31/09)	> Online Course		3		Allan Roscoe
2154	44.343-061	Forensic Psychology (5/26-7/31/09)	> Online Course		3		Denise Hines
2318	44.387-061	Criminal Mind and Behavior	> Online Course		3		Ellsworth Fersch
2626	44.390-011	Criminal Justice Research Methods	T/Th	6:00-9:15 pm	3		Karin Tusinski
2014	44.395-011	Statistics in Criminal Justice	M-Th	10:30 am-12:45 pm	3	P: 44.390	Jacob Stowell
2627	44.397-061	Crime Mapping (5/26-7/31/09)	> Online Course		3		Jacob Stowell
1850	44.398-011	Criminal Justice Data Analysis	M-Th	10:30 am-12:45 pm	3	P: 44.390	Christopher Harris
2286	44.496-011	Criminal Justice Practicum	TBA	TBA	3	Email instructor at <a href="mailto:Gail_Beaudoin@uml.edu">Gail_Beaudoin@uml.edu</a> to arrange for an appointment.	Gail Beaudoin
For permission numbers and questions regarding the Undergraduate Criminal Justice Program, please email <a href="mailto:Kathleen_Roscoe@uml.edu">Kathleen_Roscoe@uml.edu</a> . CERTIFICATE IN PARALEGAL STUDIES CERTIFICATE IN SECURITY MANAGEMENT AND HOMELAND SECURITY (See page 4 for required courses.)							



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
CULTURAL STUDIES							
2012	58.101-011	Art Appreciation	M/W	7:00-10:15 pm	3	AHD	Jennifer Cadero-Gillette
2628	59.203-061	History of Art I: Prehistoric to Medieval Art (5/26-7/31/08)	> Online Course		3	AHD	Liana Cheney
2629	59.204-061	History of Art II: Renaissance to Modern Art (5/26-7/31/08)	> Online Course		3	AHD	Liana Cheney
ECONOMICS							
1860	49.201-011	Economics I (Microeconomics)	M/W	6:00-9:15 pm	3	P: 90.111; SS	Harjeet Khosla
1941	49.201-061	Economics I (Microeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Natalia Gold
1942	49.201-062	Economics I (Microeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Nurul Aman
2185	49.201-063	Economics I (Microeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Joanne Spitz
1861	49.202-011	Economics II (Macroeconomics)	T/Th	6:00-9:15 pm	3	P: 90.111; SS	Ronald Olive
1944	49.202-061	Economics II (Macroeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Michael Carter
1945	49.202-062	Economics II (Macroeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Nurul Aman
2132	49.202-063	Economics II (Macroeconomics) (5/26-7/31/09)	> Online Course		3	P: 90.111; SS	Muhammad Anwar
1862	49.211-011	Statistics for Business and Economics I	T/Th	6:00-9:15 pm	3	P: 92.122 or equivalent; SS	Harjeet Khosla
2028	49.325-061	United States Economic History (5/26-7/31/09)	> Online Course		3	P: 49.201 or 49.202; SSD	Carol McDonough
ELECTRICAL AND COMPUTER ENGINEERING							
2630	16.201-011	Circuits I	M/W	9:00 am-12:15 pm	3	P: C or better in 92.132	Tenneti Rao
1833	16.428-011	Alternative Energy Sources	M/W	6:00-9:15 pm	3	P: Permission of instructor	Ziyad Salameh
1834	16.429-011	Electric Vehicle Technology	T/Th	6:00-9:15 pm	3	P: Permission of instructor	Ziyad Salameh
2631	16.431-011	RF Design I	T/Th	6:00-9:15 pm	3	P: Instructor permission	Tenneti Rao
3015	16.461-011	Engineering Electromagnetics II	T/Th	3:00-6:15 pm	3	P: 16.360, 16.364	Dikshitulu Kalluri
2632	16.490-011	Fiber Optic Communications	M/W	2:00-5:15 pm	3	P: Permission of instructor	Craig Armiento
ENGLISH							
1844	42.101-011	College Writing I	M-Th	8:00-10:15 am	3		Daniel Graffeo
1917	42.101-061	College Writing I (5/26-7/31/09)	> Online Course		3	P: Requires MS Word	Richard Keating
2280	42.101-062	College Writing I (5/26-7/31/09)	> Online Course		3	P: Requires MS Word	Erin Bingman
2633	42.101-063	College Writing I (5/26-7/31/09)	> Online Course		3	P: Requires MS Word	Jonathan Martin
2032	42.102-011	College Writing II	T/Th	7:00-10:15 pm	3	P: 42.101	Mary Hojnacki
1919	42.102-061	College Writing II (5/26-7/31/09)	> Online Course		3	P: 42.101; requires MS Word	Marialana Salamone
2100	42.102-062	College Writing II (5/26-7/31/09)	> Online Course		3	P: 42.101; requires MS Word	Marialana Salamone
2634	42.102-063	College Writing II (5/26-7/31/09)	> Online Course		3	P: 42.101; requires MS Word	Guy Peartree
1921	42.212-061	The Short Story (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Claudine Perreault
1845	42.212-062	The Short Story (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Department Faculty
2150	42.216-061 NEW!	Monsters, Apes and Nightmares (5/26-7/31/09)	> Online Course			P: 42.102; AH	Todd Avery
1846	42.217-011	The Horror Story	T/Th	7:00-10:15 pm	3	P: 42.102; AH	Todd Avery
2033	42.217-061	The Horror Story (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Lisa Mahoney
2034	42.217-062	The Horror Story (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Lisa Mahoney
2635	42.222-011	Oral Communication	M/W	7:00-10:15 pm	3	P: 42.102; AH	Rita Sullivan
1924	42.224-061*	Business Writing (5/26-7/31/09)	> Online Course		3	P: 42.102; requires MS Word	Nancy Brown
2013	42.224-062*	Business Writing (5/26-7/31/09)	> Online Course		3	P: 42.102; requires MS Word	Nancy Brown
2036	42.226-061*	Technical and Scientific Communication (5/26-7/31/09)	> Online Course		3	P: 42.102; requires MS Word	Peter Payack
3019	42.251-031 NEW!	War in Literature (5/26-8/14/09)	> Online Course		3	P: 42.102; AH	Carl Mason
2038	42.291-061	History of English Literature I (5/26-7/31/09)	> Online Course		3	P: 42.102; AH	Jonathan Martin
2636	42.292-061	History of English Literature II (5/26-7/31/09)	> Online Course		3	P: 42.102; AH	Diana Archibald
1847	42.294-011	History of American Literature I	M-Th	10:30 am-12:45 pm	3	P: 42.102; AH	Keith Mitchell
2637	42.295-061	History of American Literature II	> Online Course		3	P: 42.102; AH	Sean McPherson
2225	42.298-011	Children's Literature	T/Th	7:00-10:15 pm	3	P: 42.102; AH	Margery Thibodeau
2321	42.302-061	Creative Writing: Fiction	> Online Course		3	P: 42.102; requires MS Word; requires a headset	Lori Grace
2667	42.320-061	Personal and Reflective Writing	> Online Course		3	P: 42.102	Claudine Perreault
2669	42.323-011	Writing about People	M/W	7:00-10:15 pm	3	P: 42.102	Diana Archibald
2227	42.341-061	Studies in Film (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Michael Miller
2134	42.349-061	Arthurian Literature (5/26-7/31/09)	> Online Course		3	P: 42.102; AH; requires MS Word	Charles Archer
2151	42.402-011	Topics in Writing: Screenwriting	M/W	7:00-10:15 pm	3	P: 42.102	Richard Farrell
2912	42.413-021	Advanced Software Writing (5/26-8/14/09)	Tues	6:00-9:00 pm	3	P: 42.412	Stephen Murphy
* Students will not receive credit for both 42.224 and 42.226. CERTIFICATE IN TECHNICAL WRITING (See page 4 for required courses.)							
ENVIRONMENTAL SCIENCE							
1888	87.115-011	Astronomy	T/Th	7:00-10:15 pm	3	SCL	Arnold O'Brien
1889	87.117-011	Astronomy Lab	M/W	7:00-9:15 pm	1 (2)	SCL	Arnold O'Brien
GRAPHIC DESIGN AND DIGITAL IMAGING							
(See courses listed under Art and Information Technology.) CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.)							
HEALTH							
2282	30.315-011	Kinesiology	T/Th	10:30 am-12:45 pm	3	P: For non-Exercise Physiology majors only	Keith Hallbourg
2910	30.320-011	Legal Issues in Nursing	T/Th	6:00-9:15 pm	3		Pauline Ladebauche
2039	31.201-061	Community Health and Environment (5/26-7/31/09)	> Online Course		3	Open to all students	Nicole Champagne
2305	33.301-011	Research in Nursing and Health Care (Blended Course: Meets online & on campus meetings: 5/26, 6/2, 6/9, 6/16, 6/25 Thurs)	Tues	4:00-7:00 pm	3		Margaret Knight
2040	35.101-011	Human Anatomy and Physiology I	T/Th	6:15-9:30 pm	3	C: 35.103; SCL	Paul Fierimonte
1839	35.103-011	Human Anatomy and Physiology Laboratory I	T/W/Th	2:00-5:00 pm	1 (3)	C: 35.101; SCL	Emily Rene
2184	35.206-011	Human Nutrition	T/Th	6:00-9:15 pm	3		Elizabeth Goodrow-Kotyla
2086	35.207-011	Fitness and Nutrition (6/1-6/30/09) (delayed start)	M/W	6:00-9:30 pm	3		Allison MacKenzie
1840	36.350-011	Human Biochemistry	M-Th	10:30 am-12:45 pm	3	P: 35.252 or equivalent	Thomas Wilson
CERTIFICATE IN NUTRITION							
HISTORY							
(See also Art History)							
1926	43.106-011	The Modern World	M-Th	3:30-5:45 pm	3	AH	Leonid Blickstein
1927	43.107-061	World Civilization I (5/26-7/31/09)	> Online Course		3		David Kalivas
1848	43.111-011	U.S. History to 1877	M/W	6:00-9:15 pm	3	AHD	Diane Lewis
2212	43.211-011	Historical Dimensions of Globalization	M-Th	1:00-3:15 pm	3	AH	Leonid Blickstein
2639	43.225-031 NEW!	Ancient Greek History	> Online Course		3		Jack O'Connor
2041	43.242-031	World War II (5/26-8/14/09)	> Online Course		3	Requires proctored exams	Donald Mattheisen
2042	43.274-061	Native American History (5/26-7/31/09)	> Online Course		3		Diane Lewis
2640	43.275-011	African-American History	M/W	7:00-10:15 pm	3		Gregory Washington
2906	43.321-031	The Holocaust (5/26-8/14/09)	> Online Course		3		Scott Hoerle
2090	43.350-011	Colonial America: History and Culture	T/Th	6:00-9:15 pm	3	AHD	Harry Hubbard
1849	43.365-011	United States History Since 1960	T/Th	6:00-9:15 pm	3		Stephen Russell
INFORMATION TECHNOLOGY							
(Including Multimedia and Computer Graphics)							
1975	90.160-011	Introduction to Information Systems	M/W	6:00-9:15 pm	3	TN	Christopher Gambon
2043	90.160-061	Introduction to Information Systems (5/26-7/31/09)	> Online Course		3	TN	Lisa Panagopoulos



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2353	90.160-062	Introduction to Information Systems (5/26-7/31/09)	> Online Course		3	TN	Andrew Garside
1976	90.180-061	Applications Software: Microsoft® Excel (5/26-7/31/09)	> Online Course		3	P: 90.202 or equivalent; requires MS® Excel 2007	Robin Desmond
2276	90.202-011	Microsoft® Office	T/Th	6:00-9:15 pm	3	P: Requires MS® Office® 2007	Terry Bass
2044	90.202-061	Microsoft® Office (5/26-7/31/09)	> Online Course		3	P: Requires MS® Office® 2007	Robin Desmond
1978	90.211-061*	Introduction to Programming with C Part I (5/26-7/31/09)	> Online Course		3	P: No previous prog. experience required; ANSI C/C++ standard compiler required	James Sears
1979	90.212-061*	Introduction to Programming with C - Part II (5/26-7/31/09)	> Online Course		3	P: 90.211; requires ANSI C/C++ standard compiler	James Sears
2045	90.220-061	Visual Basic® (6/8-8/14/09)) (delayed start)	> Online Course		3		Joseph Russell
2320	90.230-031	Introduction to Multimedia (5/26-8/14/09)	> Online Course		3	P: Basic Mac or Windows proficiency	Robert Graham
2192	90.231-061	Graphics for Multimedia and the Web/Windows (5/26-7/31/09)	> Online Course		3	P: 90.230; requires Photoshop 5.0 or higher; access to a scanner	Randy Howe
2261	90.232-061	Desktop Video Production (5/26-7/31/09)	> Online Course		3	P: 90.230; requires Adobe Premiere Elements 4.0 for the PC, or Final Cut Express for the Mac	Michael Lucas
2047	90.238-061	Website Development: Microsoft Expression Web/Windows (5/26-7/31/09)	> Online Course		3	P: 90.291; 90.231 recommended; requires MS Expression Web	Judith Feeney
1980	90.247-061	Web Authoring: Flash (5/26-7/31/09)	> Online Course		3	P: 90.291, 90.302 or prog. familiarity; requires Adobe Flash CS3	Beatrice Lee
2325	90.248-061	Website Database Implementation (5/26-7/21/09)	> Online Course		3		Marc Cobery
2642	90.250-031	E-Commerce on the Web (5/26-8/14/09)	> Online Course		3		Robert Graham
2163	90.267-011*	C Programming	T/Th	6:00-9:15 pm	3	P: Previous programming experience	Nancy Kiernan
2162	90.267-061*	C Programming (5/26-7/31/09)	> Online Course		3	P: Previous programming experience; requires ANSI C/C++ compiler software	Timothy Niesen
2164	90.268-011	C++ Programming	T/Th	7:00-10:15 pm	3	P: 90.267 or 90.212	Thomas Kostizak
1982	90.268-061	C++ Programming (5/26-7/31/09)	> Online Course		3	P: 90.267 or 90.212; requires C++ compiler software	Lance Smith
2048	90.270-061	Visual C++.Net (5/26-7/31/09)	> Online Course		3	P: 90.268; requires Visual Studio .NET	Barbara Bancroft
2049	90.291-061	Introduction to DHTML (5/26-7/31/09)	> Online Course		3		William Dubie
2050	90.292-061	Advanced DHTML	> Online Course		3	P: 90.291	Isobel Davis
2051	90.297-061	Introduction to Java Programming (5/26-7/31/09)	> Online Course		3	P: Previous programming experience required; req. J2SE Development Kit (JDK) 6.0	Lance Smith
2165	90.301-061	Java™ Programming/Windows (5/26-7/31/09)	> Online Course		3	P: 90.297 or 90.268	Elizabeth Kramer
2052	90.302-061	JavaScript (5/26-7/31/09)	> Online Course		3	P: 90.291 or knowledge of HTML	David Sciuto
2053	90.305-061	Introduction to Perl (5/26-7/31/09)	> Online Course		3	P: 90.267	Gregory Rushton
1983	90.306-061	Introduction to XML (5/26-7/31/09)	> Online Course		3	P: 90.291; requires EITHER XMLSpy Home edition (textbook recommended) or XMLWriter (instructor recommended)	David Sciuto
2054	90.311-061	Introduction to the UNIX Operating System (5/26-7/31/09)	> Online Course		3		Fred Vegliante
2055	90.312-061	Shell Scripting (5/26-7/31/09)	> Online Course		3	P: 90.311, and 90.267 or 90.212	Michael Richards
2169	90.316-061	UNIX System Administration (5/26-7/31/09)	> Online Course		3	P: 90.312	Michael Richards
2056	90.319-061	Introduction to Linux® Programming (5/26-7/31/09)	> Online Course		3	P: Requires Fedora (Core 9 or Ubuntu Gutsy)	C. Justin Seiferth
2057	90.321-061	Linux® System Administration (5/26-7/31/09)	> Online Course		3	P: Shell Scripting experience; required software included with text	Barbara Bancroft
2089	90.360-061	Introduction to Data Structures Using C (5/26-7/31/09)	> Online Course		3	P: 90.364, and 90.267 or 90.212; requires ANSI C/C++ compiler software	Isobel Davis
2170	90.364-031	Problem Solving with C (5/26-8/14/09)	> Online Course		3	P: 90.212 or 90.267; requires ANSI C/C++ software	Sean McGowan
2171	90.443-011	Fundamentals of Client/Server Computing	T/Th	6:00-9:15 pm	3		Umesh Bhargava
2951	90.453-021	Database Administration II: Advanced Oracle 10g (5/26-8/14/09)	Thurs	7:00-10:00 pm	3	P: 90.450 or related experience	T. Michael Cummings
2937	90.454-011	Oracle 10g SQL Development	M/W	7:00-10:15 pm	3		Jeffrey Yang
2952	90.459-021	PL/SQL I: Introduction to Oracle 10g PL/SQL (5/26-8/14/09)	Tues	7:00-10:00 pm	3		Leon Xia
1985	90.460-061	Computer Ethics (5/26-7/31/09)	> Online Course		3		Sean McGowan
2172	90.461-011	LAN/WAN Technologies	T/Th	6:00-9:15 pm	3	P: 90.267 or previous prog. experience	Jaime Fernandez
1986	90.461-061	LAN/WAN Technologies (5/26-7/31/09)	> Online Course		3	P: 90.267 or previous prog. experience	Edwin Barnes
1987	90.462-061	TCP/IP and Network Architecture (5/26-7/31/09)	> Online Course		3	P: 90.461	Edwin Barnes
1988	90.464-061	Network Management (5/26-8/14/09)	> Online Course		3	P: 90.461	Jaime Fernandez
2173	90.474-031	Relational Database Concepts (5/26-8/14/09)	> Online Course		3	P: 90.267	Robert Demers
2202	90.480-031	Project-Based Information Systems (5/26-8/14/09)	> Online Course		6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478; requires MS PowerPoint or OpenOffice	Jon Forsyth
2928	90.480-032	Project-Based Information Systems (5/26-8/14/09)	> Online Course		6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478; requires MS PowerPoint or OpenOffice	Jon Forsyth

\*Students will not receive credit for both 90.267 and the 90.211/90.212 sequence.  
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)  
CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)  
CERTIFICATE IN DATA/TELECOMMUNICATIONS (See page 4 for required courses.)  
CERTIFICATE IN INFORMATION TECHNOLOGY (See page 4 for required courses.)  
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)  
CERTIFICATE IN UNIX (See page 4 for required courses.)  
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)

## LANGUAGES

(See also Cultural Studies)

2129	50.102-011	French 2 and Culture	M/W	7:00-10:00 pm	3	P: 50.101 or equivalent	Department Faculty
1863	50.211-011	French 3 and Culture	T/Th	7:00-10:15 pm	3	P: 50.102 or equivalent	Carole Salmon
1947	50.212-011	French 4 and Culture	M/W	7:00-10:15 pm	3	P: 50.111 or equivalent	Carole Salmon
2229	52.102-041	Italian 2 and Culture (Held in Matera, Italy; May 27-June 25)			3	P: 52.101 or equivalent; please see ad on page 20	Isaia Giannetti
3014	52.378-041	Italian Cinema and Culture (Held in Matera, Italy; May 27-June 25)			3	P: 52.101 or equivalent; please see ad on page 20	Isaia Giannetti
1864	54.101-061	Spanish 1 and Culture (5/26-7/31/09)	> Online Course		3	Microphone or headset recommended	Kimberly Vitchkoski
2337	54.101-062	Spanish 1 and Culture (5/26-7/31/09)	> Online Course		3		Department Faculty
1948	54.102-011	Spanish 2 and Culture	T/Th	7:00-10:15 pm	3	P: 54.101 or equivalent	Ana Cristina Ramirez
2188	54.102-061	Spanish 2 and Culture (5/26-7/31/09)	> Online Course		3	P: 54.101 or equivalent, microphone or headset recommended	Kimberly Vitchkoski
1865	54.211-011	Spanish 3 and Culture	M/W	7:00-10:15 pm	3	P: 54.102 or equivalent	Ana Cristina Ramirez
1866	54.211-061	Spanish 3 and Culture (5/26-7/31/09)	> Online Course		3	P: 52.102 or equivalent	Maria Matz
1951	54.212-061	Spanish 4 and Culture (5/26-7/31/09)	> Online Course		3	P: 54.211 or equivalent	Maria Matz

CERTIFICATE IN SPANISH AND LATIN AMERICAN STUDIES

## LEGAL STUDIES

(See also Paralegal Studies)

2060	41.262-011	Introduction to Business Law	M/W	6:30-9:45 pm	3	SS	William Burke
2145	41.363-011	Corporate and Property Law	T/Th	6:30-9:45 pm	3		Eugene Reardon
2087	41.366-061	International Law (5/26-7/31/09)	> Online Course		3		Bernard Cookson
1916	41.370-061	Real Estate Law (5/26-7/31/09)	> Online Course		3	Requires MS Word	Patricia Sullivan Talty
1842	41.376-011	Family Law	T/Th	7:00-10:15 pm	3		Russell Karl
2186	41.376-061	Family Law (5/26-7/31/09)	> Online Course		3	Requires proctored exams; microphone or headset recommended	Russell Karl

✦ (See page 3 for details.)

See our Website at <http://continuinged.uml.edu>



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2074	41.381-061	Women and the Law (5/26-7/31/09)			3	Requires MS Word	Donna Zils Banfield
2130	41.387-061	Legal Research Methods (5/26-7/31/09)			3	Law library access required	Martha Lipchitz O'Connor
2061	41.390-061	Litigation (6/1-7/31/09) (delayed start)			3		Ellen Curran
2774	41.392-061	Wills, Trusts and Estates (5/26-7/31/09)			3		Walter Toomey
1843	41.497-011	The Paralegal Practicum	TBA	TBA	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coordinator, Legal Studies; call (978) 934-2765	Department Faculty

MANAGEMENT							
2272	61.300-031*	Investments (5/26-7/17/09)			3	COM filter courses and COM Dean perm.	Frank Andrews
2649	61.301-011*	Business Finance	M/W	6:00-9:15 pm	3	P: 60.201, 49.201, 49.202; COM filter courses, BSBA major or Business Minor/BSIT/ASIT with 54+ credits and COM Dean permission	Ravi Jain
2302	61.301-031*	Business Finance (5/26-7/17/09)			3	P: 60.201, 49.201, 49.202; COM filter courses, BSBA major or Business Minor/BSIT/ASIT with 54+ credits and COM Dean permission	Yash Puri
2062	61.303-031*	Methods of Financial Analysis (5/26-7/17/09)			3	P: 61.301, BSBA majors and COM Dean permission	Ravi Jain
1954	62.201-061	Marketing Principles (5/26-7/31/09)			3	P: 47.101, 48.101, 49.201; requires proctored exams	Duncan LaBay
2136	66.210-011	Professional Communications	M/W	9:00 am-12:15 pm	3	P: BSBA students and COM Dean perm.	James Moran
2137	66.210-012	Professional Communications	T/Th	6:00-9:15 pm	3	P: BSBA students and COM Dean perm.	Karen Hvizda
1959	66.301-031*	Organizational Behavior (5/26-7/17/09)			3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and COM Dean permission; requires proctored exams	Stuart Freedman
2650	66.310-031*	Human Resources Management (5/26-7/17/09)			3	P: 66.301; COM filter courses and COM Dean permission	Brooke Hargreaves-Heald
2651	66.480-011*	Current Topics in Management: Business Ethics	T/Th	6:00-9:15 pm	3	P: 66.301 and COM Dean permission	Steven Tello
1872	66.490-011*	Strategic Management	M/W	6:00-9:15 pm	3	P: Graduating seniors only; 61.301, 62.201, 63.301, 63.371, 66.301 BSBA students and COM Dean permission	Scott Latham

\*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form." Please visit <http://continuinged.uml.edu/general/information.htm> to fill out the form online.

MATHEMATICS							
2104	90.111-011*	Fundamentals of Algebra	T/Th	7:00-10:15 pm	3		Department Faculty
1891	92.111-011	Quantitative Reasoning	M-Th	10:30 am-12:45 pm	3	Two years of high school algebra; Liberal Arts majors only; no credit toward a degree in science or engineering; MA	Alan Kaplan
2105	92.120-011**	Precalculus Mathematics I	T/Th	6:30-9:45 pm	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class; MA	Candice Weston
2106	92.120-061**	Precalculus Mathematics (5/26-7/31/09)			3	P: 90.111 or equivalent; MA; designed for students who can work independently in math	Alan Doerr
2095	92.121-011**	Management Precalculus	M-Th	8:00-10:15 am	3	MA	Alan Kaplan
1892	92.122-011	Management Calculus	M-Th	10:30 am-12:45 pm	3	P: 92.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	Charles Ormsby
1893	92.122-012	Management Calculus	M/W	6:00-9:15 pm	3	P: 92.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	J. Peter Weston
2064	92.123-011	Precalculus Mathematics II	M/W	6:00-9:15 pm	3	P: 92.120; MA	Department Faculty
1894	92.125-011	Calculus A	T/Th	6:00-9:15 pm	3	P: 92.123; MA	Theresa Schille
2065	92.126-011	Calculus B	M/W	6:00-9:15 pm	3	P: 92.125; MA	Ronald Brent
2107	92.127-011	Preparation for Calculus	M-F	8:00-10:15 pm	4		Ronald Brent
2652	92.131-011	Calculus I	M-F	8:00-10:15 am	4	MA	John Lahoud
2653	92.131-012	Calculus I	M-F	10:30 am-12:45 pm	4	MA	John Lahoud
1998	92.132-011	Calculus II	M-F	8:00-10:15 am	4	P: 92.131; MA	Marvin Stick
1999	92.132-012	Calculus II	M-F	10:30 am-12:45 pm	4	P: 92.131; MA	Marvin Stick
2066	92.225-011	Calculus C	M/W	6:00-9:15 pm	3	P: 92.126; MA	Rida Mirie
2112	92.226-011	Calculus D	M/W	6:00-9:15 pm	3	P: 92.225	Philip Breen
1895	92.231-011	Calculus III	M-F	10:30 am-12:45 pm	4	P: 92.132	Vidhu Prasad
1896	92.234-011	Differential Equations	T/Th	6:00-9:15 pm	3	P: 92.225 or 92.132	Rida Mirie
2067	92.236-011	Engineering Differential Equations	M-F	8:00-10:15 am	3 (4)	P: 92.225 or 92.132	Vidhu Prasad
2109	92.283-011	Introduction to Statistics	M-Th	8:00-10:15 am	3	P: 90.111 or equivalent; MA	Alexander Olsen
2110	92.283-012	Introduction to Statistics	M/W	6:00-9:15 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
2111	92.283-061	Introduction to Statistics (5/26-7/31/09)			3	P: 90.111 or equivalent; MA	Ann Marie Hurley
2201	92.283-062	Introduction to Statistics (5/26-7/31/09)			3	P: 90.111 or equivalent; MA	Ann Marie Hurley
2068	92.321-061	Discrete Structures I (5/26-7/31/09)			3	P: 90.112 or 92.120; designed for students who can work independently in math	Alan Doerr
2114	92.375-011	Senior Seminar I	TBA	TBA	1	P: Permission of Coordinator	Department Faculty
1897	92.386-011	Probability and Statistics I	M/W	6:00-9:15 pm	3	P: 92.225 or 92.132	Chittur Venkatesh
2654	92.419-031	Mathematica (5/26-8/14/09)			3		Kenneth Levasseur
2069	92.450-011	Mathematical Modeling	M/W	6:00-9:15 pm	3	P: 92.225 or 92.132	James Graham Eagle
2220	92.466-011	Statistical Programming Using SAS	M/W	6:00-9:15 pm	3		Loren Lidsky
2274	92.475-011	Senior Seminar II	TBA	TBA	3	P: Permission of Coordinator	Department Faculty

\*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.

\*\*Credit is given for only one of the three following courses: 90.119, 92.120 or 92.121. For students in the Information Technology Program, 92.120 or 92.121 can be substituted for the combination of 90.112 and 90.119.

University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.

MECHANICAL ENGINEERING							
2070	22.212-011	Strength of Materials (alternate 14.204)	M-Th	8:00-10:15 am	3	P: 22.211, 92.132	John McKelliget
2144	22.242-011	Thermodynamics	T/Th	7:00-10:15 pm	3	P: 92.132 and 95.245, 84.117 or 84.121	John Colluccini
2081	22.381-011	Fluid Mechanics	M-Th	10:30 am-12:45 pm	3	P: 92.231, 92.236, and 22.213 or 14.205	Majid Charmchi

MULTIMEDIA APPLICATIONS							
(See courses listed under Information Technology.)							
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)							

MUSIC							
1874	71.102-011	Music Theory 2	M-Th	8:00-10:15 am	3	P: 71.101	Department Faculty
1875	71.104-011	Aural Skills 2	M-Th	10:30 am-12:05 pm	1 (2)	P: 71.103	Charles Gabriel
1876	71.201-011	Music Theory 3	M-Th	10:30 am-12:45 pm	3	P: 71.102	Department Faculty
1877	71.203-011	Aural Skills 3	M-Th	8:00-9:35 am	1 (2)	P: 71.102	Department Faculty
2277	77.499-021	Music Business Internship (5/26-8/14/09)	M-F	9:00 am-4:00 pm	6	P: Permission of Chairperson	Alan Williams
2278	78.493-021	Internship in Sound Recording Technology (5/26-8/14/09)	M-F	9:00 am-4:00 pm	6	P: Permission of Coordinator	William Moylan

OPERATIONS AND INFORMATION SYSTEMS							
1871	63.210-011	Operations Analysis Techniques	M/W	8:00-11:15 am	3	P: 49.211	M. Riaz Khan
2063	63.301-011*	Management Information Systems	T/Th	9:00 am-12:15 pm	3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and COM Dean permission	Edward Chen
1957	63.301-031*	Management Information Systems (5/26-8/14/09)			3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and COM Dean permission; requires proctored exams	David Lewis



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2310	63.408-061*	Current Topics in Management Information Systems: Implementing ERP (5/26-7/31/09)	> Online Course		3	P: 63.301, COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54 credits and COM Dean permission	Luvai Motiwalla
*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form". Please visit <a href="http://continuinged.uml.edu/general/information.htm">http://continuinged.uml.edu/general/information.htm</a> to fill out the form online.							
PARALEGAL STUDIES							
(See also Legal Studies)							
2145	41.363-011	Corporate and Property Law	T/Th	6:30-9:45 pm	3		Eugene Reardon
1916	41.370-061	Real Estate Law (5/26-8/14/09)	> Online Course		3	Requires MS Word	Patricia Sullivan Talty
1842	41.376-011	Family Law	T/Th	7:00-10:15 pm	3		Russell Karl
2186	41.376-061	Family Law (5/26-7/31/09)	> Online Course		3	Requires proctored exams; microphone or headset recommended	Russell Karl
2130	41.387-061	Legal Research Methods (5/26-7/31/09)	> Online Course		3	Law library access required; requires MS Word	Martha Lipchitz O'Connor
2061	41.390-061	Litigation (6/1-7/31/09) (delayed start)	> Online Course		3		Ellen Curran
1843	41.497-011	The Paralegal Practicum	TBA	TBA	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coordinator, Legal Studies; call (978) 934-2765	Department Faculty
CERTIFICATE IN PARALEGAL STUDIES							
PHILOSOPHY							
1851	45.201-011	Introduction to Philosophy	T/Th	7:00-10:15 pm	3	AHE	Michael Koran
2655	45.201-012	Introduction to Philosophy	M/W	6:00-9:15 pm	3	AHE	John Kaag
1933	45.201-061	Introduction to Philosophy (5/26-7/31/09)	> Online Course		3	AHE	Donald LeBlanc
2913	45.201-062	Introduction to Philosophy (5/26-7/31/09)	> Online Course		3	AHE	Department Faculty
1852	45.202-011	Introduction to Logic and Critical Reasoning	T/Th	7:00-10:15 pm	3	AHE	James Hart
2240	45.203-031	Introduction to Ethics (5/26-8/14/09)	> Online Course		3	AHDE	Christopher Phillips
3020	45.203-032	Introduction to Ethics (5/26-8/14/09)	> Online Course		3	AHDE	Christopher Phillips
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
PHYSICS							
1898	95.103-011	General Physics I	M-Th	8:00-10:15 am	3	C: 96.103; SCLO	Arthur Mittler
1899	95.141-011	Physics I	M-F	8:00-10:15 am	3 (4)	C: 92.131, 96.141; SCL	F. Raymond Hardy
1900	95.144-011	Physics II	M-F	8:00-10:15 am	3 (4)	P: 95.141. C: 92.132, 96.144	Roger McLeod
1901	96.103-011	General Physics I Lab (2 days/week)	T/Th	12:30-3:45 pm	1 (2)	C: 95.103 or 95.201; SCL	Arthur Mittler
1902	96.141-011	Physics I Lab (2 days/week)	M/W	1:00-4:15 pm	1 (2)	C: 95.141; SCL	F. Raymond Hardy
1903	96.144-011	Physics II Lab (2 days/week)	T/Th	1:00-4:15 pm	1 (2)	P: 96.141. C: 95.144	Afrim Alimeti
1904	99.101-061	Radiation and Life (5/26-7/31/09)	> Online Course		3	SCLO	Thomas Regan
1905	99.102-011	Radiation and Life Lab	M/W	3:30-5:45 pm	1 (2)	P: or C: 99.101; SCLO	Thomas Regan
PLASTICS							
1837	27.451-011	Selected Topics I	M/W	7:00-10:15 pm	3		Department Faculty
1910	27.452-011	Selected Topics II	T/Th	7:00-10:15 pm	3		Department Faculty
CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY (See page 4 for required courses.)							
POLITICAL SCIENCE							
1853	46.101-011	Introduction to American Politics	M-Th	10:30-12:45 pm	3	SS	Jeffrey Gerson
2142	46.101-061	Introduction to American Politics (5/26-7/31/09)	> Online Course		3	SS	Jason Carter
3021	46.101-062	Introduction to American Politics (5/26-7/31/09)	> Online Course		3	SS	Jason Carter
2241	46.110-011	Introduction to Politics	M-Th	10:30-12:45 pm	3	SSD	George Anthes
2140	46.112-011	Introduction to Comparative Political Systems	M/W	7:00-10:15 pm	3	SSD	Gregory DeLaurier
2871	46.121-011	Introduction to International Relations	T/Th	6:00-9:15 pm	3	SSD	Ardeth Thawngnhmung
2143	46.121-061	Intro. to International Relations (5/26-7/31/09)	> Online Course		3	SSD	Don Leonard
2281	46.265-061	State and Local Politics (5/26-7/31/09)	> Online Course		3		Dennis Deeb
2242	46.316-011	Politics and Film	M-Th	1:00-3:15 pm	3		Jeffrey Gerson
2243	46.344-011	The American Presidency	M/W	7:00-10:15 pm	3		Dennis Deeb
2287	46.348-061	Literature, Politics and Genocide in Cambodia (5/26-7/31/09)	> Online Course		3	SSDE	George Chigas
2290	46.368-011	Middle Eastern Politics	T/Th	7:00-10:15 pm	3		Steven Clinkenbeard
PSYCHOLOGY							
1855	47.101-011	General Psychology	T/Th	6:30-9:45 pm	3	SS	John Kendrick
1936	47.101-061	General Psychology (5/26-7/31/09)	> Online Course		3	SS	John Kendrick
2947	47.101-062	General Psychology (5/26-7/31/09)	> Online Course		3	SS	Katherine Tyndall
2122	47.232-061	Psychology of Personality (5/26-7/31/09)	> Online Course		3	P: or C: 47.101; SS	Joan Cannon
2131	47.255-061	Community Psychology (5/26-7/31/09)	> Online Course		3	P: or C: 47.101; SSD	Erika Sanborne
2093	47.260-061	Child and Adolescent Development (formerly Human Development I) (5/26-7/31/09)	> Online Course		3	P: or C: 47.101; SS	Patricia Trela
1856	47.273-011	Brain, Mind and Behavior (Blended Course: Mon. and Wed. in classroom; Tues. and Thurs Online)	M-Th	8:00-10:00 am	3	P: 47.101	Mary Duell
2123	47.277-061	Sensation and Perception (5/26-7/31/09)	> Online Course		3	P: 47.101	David Landrigan
1937	47.335-061	Psychology and Women (5/26-7/31/09)	> Online Course		3	P: 47.101; SSD	Mary Francis Drake
2071	47.351-061	Human Sexuality (5/26-7/31/09)	> Online Course		3	P: 47.101; SS	Mary Duell
2656	47.360-061	Adult Development and Aging (5/26-7/31/09)	> Online Course		3	P: 47.101; and 47.260 or equivalent, SS	Meredith Stanford-Pollock
2124	47.369-061	Research II: Statistics (5/26-7/31/09)	> Online Course		3	P: 47.101; grade of "C" or better in 47.269	David Landrigan
2072	47.472-061	Seminar: Personality (5/26-7/31/09)	> Online Course		3	P: 47.101, and 47.269 or equivalent	Joan Cannon
2657	47.475-011 NEW!	Seminar: Clinical Psychology - ADHD	M/W	6:30-9:45 pm	3	P: 47.101, and 47.269 or equivalent	Dubi Lufi
2216	47.477-061	Seminar: Contemporary Trends - Addictions (5/26-7/31/09)	> Online Course		3	P: 47.101, and 47.269 or equivalent	Richard Siegel
REGIONAL ECONOMIC AND SOCIAL DEVELOPMENT							
2915	57.475-011	Community Conflict Resolution	T/Th	6:00-9:15 pm	3		D. Turcotte/ M. Zapata Turcotte
SOCIOLOGY							
2658	48.112-011	Sociology Goes to the Movies	T/Th	7:00-10:15 pm	3		William Lekas
2914	48.220-061	Self-Assessment and Career Development (5/26-7/31/09)	> Online Course		3	P: 48.101	Mary Francis Drake
1859	48.234-011	The Study of Minorities	M/W	7:00-10:15 pm	3	P: 48.101	Christopher Cass
2659	48.240-011	Sociology of Gender	M-Th	10:30 am-12:45 pm	3	P: 48.101	Amy Sousa
2660	48.280-011	Drugs and Society	M-Th	10:30-12:45 pm	3	P: 48.101	Keith Saunders
2661	48.340-031	Sociology of Sports (5/26-8/14/09)	> Online Course		3	P: 48.101	Levon Chorbajian
2807	48.341-011	Wealth, Status and Power	M-Th	8:00-10:15 am	3	P: 48.101; SSD	Joshua Asowan
TECHNICAL WRITING							
2912	42.413-021	Advanced Software Writing (5/26-8/14/09)	Tues	6:00-9:00 pm	3	P: 42.412	Stephen Murphy
CERTIFICATE IN TECHNICAL WRITING							
WEBSITE DESIGN AND DEVELOPMENT							
(See courses listed under Information Technology.)							
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
WOMEN'S STUDIES							
2074	41.381-061	Women and the Law (5/26-7/31/09)	> Online Course		3	Requires MS Word	Donna Zils Banfield
1937	47.335-061	Psychology and Women (5/26-7/31/09)	> Online Course		3	P: 47.101; SSD	Mary Francis Drake



July 6–August 14  
Summer Session II

**Day Classes** begin on July 6 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.  
**M/W Evening Classes** begin on July 6 and include 2 FRIDAYS: July 17 and July 31 at the regularly scheduled hours.  
**T/Th Evening Classes** begin on July 7 and include 2 FRIDAYS: July 24 and August 7 at the regularly scheduled hours.

Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
BIOLOGICAL SCIENCES							
2234	83.101-021	Life Science I	T/Th	6:30-9:30 pm	3		Phuono-Son Nguyen
CHEMISTRY							
1969	84.112-021	General Chemistry II	T/Th	7:00-10:00 pm	3	P: 84.111 or permission of instructor C: 84.114; SCL	Daniel Lavoie
1970	84.114-021	General Chemistry Lab II	T/Th	3:30-6:30 pm	1 (3)	P: 84.113 or permission of instructor; C: 84.112; SCL	Athena Letsou
1971	84.122-021	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121 and 84.123. C: 84.124; SCL	Stephen Theberge
1972	84.124-021	Chemistry II Lab	T/Th	7:00-10:00 pm	1 (3)	P: 84.123; C: 84.122; SCL	Paul Damour
2103	84.124-022	Chemistry II Laboratory	T/Th	7:00-10:00 pm	1 (3)	C: 84.122; SCL	Theodore Coletta
1973	84.222-021	Organic Chemistry II (A)	M/T/Th	2:45-5:15 pm	3	P: 84.221. C: 84.230	Gene Davis
1974	84.222-022	Organic Chemistry II (A)	T/Th	7:00-10:00 pm	3	P: 84.221. C: 84.230	Gene Davis
2016	84.230-021	Organic Chemistry II A Lab	T/Th	6:00-10:00 pm	1 (4)	P: 84.229; C: 84.222	Judith Freeman
2017	84.230-022	Organic Chemistry II A Lab	M/W	6:00-10:00 pm	1 (4)	P: 84.229. C: 84.222	Judith Freeman
CIVIL ENGINEERING							
1906	14.205-021	Dynamics (alternate 22.213)	M-Th	8:00-10:00 am	3	P: 14.203, 92.132	John McKelliget
CLIENT SERVER TECHNOLOGY							
(See courses listed under Information Technology)							
CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)							
CRIMINAL JUSTICE							
2249	44.360-021	Gender, Race and Crime	M/W	7:00-10:00 pm	3		Gail Beaudoin
2663	44.390-021	Research Methods	T/Th	6:00-9:00 pm	3		Karin Tusinski
2265	44.496-021	Criminal Justice Practicum	TBA	TBA	3	Email instructor at Gail_Beaudoin@uml.edu to arrange for an appointment.	Gail Beaudoin
For permission numbers and questions regarding the Undergraduate Criminal Justice Program, please email Kathleen_Roscoe@uml.edu.							
CERTIFICATE IN PARALEGAL STUDIES							
CERTIFICATE IN SECURITY MANAGEMENT AND HOMELAND SECURITY (See page 4 for required courses.)							
ECONOMICS							
1940	49.201-021	Economics I (Microeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; BS/SS	Harjeet Khosla
1943	49.202-021	Economics II (Macroeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS/SS	Ronald Olive
1946	49.211-021	Statistics for Business and Economics I	T/Th	6:00-9:00 pm	3	P: 92.122 or equivalent	Harjeet Khosla
ELECTRICAL AND COMPUTER ENGINEERING							
2664	16.202-021	Circuits II	M/W	9:00 am-Noon	3	P: 16.201	Tenneti Rao
2665	16.265-021	Logic Design I	T/Th	9:00 am-Noon	3	P: 25.108 or 91.101	Anh Tran
1831	16.362-021	Signals and Systems I	T/Th	2:00-5:00 pm	3	P: 16.202, 92.236	Mufeed Mah'd
2030	16.460-021	Biomedical Instrumentation	T/Th	6:00-9:00 pm	3	P: 92.132, 95.144	Mufeed Mah'd
ENGLISH							
2031	42.101-021	College Writing I	M/W	7:00-10:00 pm	3		Patrick Lochelt
1918	42.102-021	College Writing II	T/Th	7:00-10:00 pm	3		Kim Komperda
1920	42.212-021	The Short Story	M/W	7:00-10:00 pm	3	P: 42.102; AH	Madeline Sherlock
1922	42.217-021	The Horror Story	T/Th	7:00-10:00 pm	3	P: 42.102; AH	Carl Mason
1923	42.224-021	Business Writing	M/W	6:00-9:00 pm	3	P: 42.102	Peter Payack
3000	42.236-021	NEW! Science Fiction and Fantasy	T/Th	7:00-10:00 pm	3	P: 42.102, AH	Harriet Hornblower
1925	42.295-021	History of American Literature II	M/W	7:00-10:00 pm	3	P: 42.102; AH	Henry Venuti
HEALTH							
1912	30.305-021	Exercise Physiology Lecture	M-F	8:00-10:00 am	4	P: Anatomy and Physiology, Chemistry; not open to UMass Lowell Exercise Physiology majors; SL	Sean Collins
2174	35.102-021	Human Anatomy and Physiology II	T/Th	6:15-9:15 pm	3	P: 35.101, 35.103 or equiv.; C: 35.104; SCL	Paul Fierimonte
1914	35.104-021	Human Anatomy and Physiology Lab II	T/W/Th	2:00-5:00 pm	1 (3)	P: 35.101, 35.103; C: 35.102; SCL	Emily Rene
2077	35.211-021	Basic Clinical Microbiology and Pathology	M-Th	6:00-8:00 pm	3	P: Anatomy and Physiology	Bryan Cowell
2078	35.213-021	Basic Clinical Microbiology and Pathology Lab	M-Th	8:00-10:00 pm	1 (3)	C: 35.211	Bryan Cowell
2938	38.420-021	Advanced Study in Exercise Physiology	T/Th	10:15 am-12:15 pm	3		Sean Collins
CERTIFICATE IN NUTRITION							
HISTORY							
(See also Art History)							
2680	43.105-021	Western Civilization I	M/W	6:00-9:00 pm	3	AHD	Andrew Drenas
1928	43.112-021	U.S. History Since 1877	M/W	7:00-10:00 pm	3	AHD	Diane Lewis
2213	43.355-021	Jacksonian America	T/Th	6:00-9:00 pm	3		Robert Lemire
2214	43.393-021	History of the Middle East and Islamic World	T/Th	6:00-9:00 pm	3		Stephen Russell
INFORMATION TECHNOLOGY							
1977	90.211-021	* Intro. to Programming with C - Part I	M/W	7:00-10:00 pm	3	No previous prog. experience required	Department Faculty
2161	90.212-021	* Intro. to Programming with C - Part II	T/Th	7:00-10:00 pm	3	P: 90.211	Department Faculty
1981	90.268-021	C++ Programming	M/W	7:00-10:00 pm	3	P: 90.267 or 90.212	Joseph Russell
2079	90.297-021	Introduction to Java Programming	T/Th	6:00-9:00 pm	3	P: Previous prog. experience required	Spencer Marks
2168	90.312-021	Shell Programming	M/W	7:00-10:00 pm	3	P: 90.311, and 90.267 or 90.212	Michael Richards
*Students will not receive credit for both 90.267 and the 90.211/90.212 sequence.							
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)							
CERTIFICATE IN DATA/TELECOMMUNICATIONS (See page 4 for required courses.)							
CERTIFICATE IN INFORMATION TECHNOLOGY (See page 4 for required courses.)							
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)							
CERTIFICATE IN UNIX (See page 4 for required courses.)							
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							



# UNDERGRADUATE CREDIT COURSES

Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>LANGUAGES</b>							
(See also Cultural Studies)							
1949	54.102-021	Spanish 2 and Culture	M-Th	8:00 am-10:00 am	3	P: 54.101 or equivalent	Department Faculty
2244	54.211-021	Spanish 3 and Culture	T/Th	7:00-10:00 pm	3	P: 54.102 or equivalent	Ana Ruiz Ramirez
2766	54.211-022	Spanish 3 and Culture	M-Th	10:15 am-12:15 pm	3	P: 54.102 or equivalent	Eliani Benaion
1950	54.212-021	Spanish 4 and Culture	M/W	7:00-10:00 pm	3	P: 54.211 or equivalent	Ana Ruiz Ramirez
2767	54.212-022	Spanish 4 and Culture	M-Th	12:30-2:30 pm	3	P: 54.211 or equivalent	Eliani Benaion
CERTIFICATE IN SPANISH AND LATIN AMERICAN STUDIES							
<b>LEGAL STUDIES</b>							
(See also Paralegal Studies)							
1841	41.363-021	Corporate and Property Law	M/W	7:00-10:00 pm	3		Paul King
2146	41.370-021	Real Estate Law	M/W	6:00-9:00 pm	3		John Laderoute
2147	41.381-021	Women and the Law	M/W	7:00-10:00 pm	3		Department Faculty
2148	41.387-021	Legal Research Methods	T/Th	6:00-9:00 pm	3		Walter Toomey
<b>MANAGEMENT</b>							
2190	66.210-021	Professional Communications	M/W	9:00 am-Noon	3	P: BSBA students and COM Dean perm.	James Moran
2191	66.210-022	Professional Communications	T/Th	6:00-9:00 pm	3	P: BSBA students and COM Dean perm.	Karen Hvizda
*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form." Please visit <a href="http://continuinged.uml.edu/general/information.htm">http://continuinged.uml.edu/general/information.htm</a> to fill out the form online.							
<b>MATHEMATICS</b>							
2116	92.120-021**	Precalculus Mathematics I	M/W	6:30-9:30 pm	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first week of class; MA.	Candice Weston
2096	92.121-021**	Management Precalculus	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alan Kaplan
1992	92.122-021	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 90.119 or 92.120 or 92.121 or equivalent; not for science or engineering majors; MA	Alan Kaplan
1993	92.123-021	Precalculus Mathematics II	T/Th	7:00-10:00 pm	3		Terence Watterson
1994	92.125-021	Calculus A	T/Th	7:00-10:00 pm	3	P: 92.123; MA	Theresa Schille
1995	92.126-021	Calculus B	M/W	7:00-10:00 pm	3	P: 92.125; MA	Ronald Brent
2117	92.127-021	Preparation for Calculus	M-F	12:30-2:30 pm	4		Ronald Brent
1996	92.131-021	Calculus I	M-F	10:15 am-12:15 pm	4	MA	John Lahoud
2879	92.132-021	Calculus II	M-F	10:15 am-12:15 pm	4	P: 92.131; MA	Konstantin Rybnikov
2000	92.231-021	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132; MA	Rida Mirie
2080	92.234-021	Differential Equations	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie
2118	92.283-021	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alexander Olsen
2119	92.283-022	Introduction to Statistics	M/W	7:00-10:00 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
2001	92.321-021	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 90.112 or 92.120	Anthony Penta
2002	92.427-021	Geometry	T/Th	8:30-11:30 am	3	P: 92.221 or 92.321	Marvin Stick
2773	92.435-021	History of Mathematics	M/W	8:30-11:30 am	3	P: 92.132	Matthew Beyranevand
*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.							
**Credit is given for only one of the three following courses: 90.119, 92.120 or 92.121. For students in the Information Technology Program, 92.120 or 92.121 can be substituted for the combination of 90.112 and 90.119.							
University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.							
<b>MECHANICAL ENGINEERING</b>							
1908	22.213-021	Dynamics (alternate 14.205)	M-Th	8:00-10:00 am	3	P: 22.211, 92.231	John McKelliget
<b>MUSIC</b>							
2950	71.100-021	Fundamentals of Musicianship	M-Th	8:00-10:00 am	3		Christopher Endrinal
2088	71.110-021	Basic Music Theory	M-Th	8:00-10:00 am	3	For Non-Music Majors only; AH	Lauren Ellis
1963	71.202-021	Music Theory 4	M-Th	10:15 am-12:15 pm	3	P: 71.201	Christopher Endrinal
1964	71.204-021	Aural Skills 4	M-Th	8:00-9:20 am	1 (2)	P: 71.203	Department Faculty
2990	73.463-021	Computers in the Music Curriculum	Jul 6-10	9:00 am-4:00 pm	3		Alex Ruthmann
2808	74.455-021 NEW!	Women in Music	M-Th	10:15 am-12:15 pm	3		Timothy Crain
2988	74.498-021	Seminar in Music History: Film Music in the Classroom	Jul 6-10	9:00 am-4:00 pm	3		Timothy Crain
<b>PARALEGAL STUDIES</b>							
(See also Legal Studies)							
1841	41.363-021	Corporate and Property Law	M/W	7:00-10:00 pm	3		Paul King
2146	41.370-021	Real Estate Law	M/W	6:00-9:00 pm	3		John Laderoute
2147	41.381-021	Women and the Law	M/W	7:00-10:00 pm	3		Department Faculty
2148	41.387-021	Legal Research Methods	T/Th	6:00-9:00 pm	3		Walter Toomey
CERTIFICATE IN PARALEGAL STUDIES							
<b>PHILOSOPHY</b>							
1932	45.201-021	Introduction to Philosophy	T/Th	7:00-10:00 pm	3	AHE	Michael Koran
1934	45.203-021	Introduction to Ethics	M/W	6:00-9:00 pm	3	AHDE	Whitley Kaufman
2775	45.348-021	Eastern Philosophy and Religion	T/Th	6:00-9:00 pm	3	AHDE	Eric Nelson
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
<b>PHYSICS</b>							
2005	95.104-021	General Physics II	M-Th	8:00-10:00 am	3	P: 95.103; C: 96.104	Edward Salesky
2006	95.141-021	Physics I	M-F	10:15 am-12:15 pm	3	C: 92.131; 96.141; SCL	Edward Salesky
2007	95.144-021	Physics II	M-F	10:15 am-12:15 pm	3	P: 95.141; C: 92.132, 96.144	Kunnat Sebastian
2008	96.104-021	General Physics II Lab (2 days per week)	T/Th	1:00-4:00 pm	1	P: 96.103; C: 95.104 or 95.202	Department Faculty
2009	96.141-021	Physics I Lab	M/W	1:00-4:00 pm	1	C: 95.141; SCL	Department Faculty
2010	96.144-021	Physics II Lab (2 days per week)	T/Th	1:00-4:00 pm	1	P: 96.141; C: 95.144	Department Faculty
2011	99.102-021	Radiation and Life Lab	M/W	3:30-5:30 pm	1	P: or C: 99.101; SCLO	Thomas Regan
<b>PLASTICS</b>							
1838	27.453-021	Selected Topics III	M/W	7:00-10:00 pm	3		Department Faculty
1911	27.454-021	Selected Topics IV	T/Th	7:00-10:00 pm	3		Department Faculty
CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY (See page 4 for required courses.)							
<b>POLITICAL SCIENCE</b>							
2266	46.101-021	Introduction to American Politics	T/Th	7:00-10:00 pm	3	SS	Dennis Deeb
1854	46.110-021	Introduction to Politics	M-Th	8:00-10:00 am	3	SSD	George Anthes
2613	46.210-021	Media and Politics	M-Th	10:15 am-12:15 pm	3		John Power
2141	46.316-021	Politics and Film	M-Th	12:30-2:30 pm	3		Jeffrey Gerson
2612	46.350-021	Urban Politics	M-Th	10:15-12:15 pm	3		Jeffrey Gerson
2252	46.363-021	Politics of China	M/W	7:00-10:00 pm	3		Gregory DeLaurier
2611	46.380-021	American Foreign Policy	T/Th	7:00-10:00 pm	3		Steven Clinkenbeard



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>PSYCHOLOGY</b>							
1935	47.101-021	General Psychology	M-Th	8:00-10:00 am	3	SS	Kenneth Lombart
2082	47.260-021	Child and Adolescent Development (formerly Human Development I) (Blended Course: Tuesday in classroom, Thursday online)	T/Th	6:00-9:00 pm	3	P: or C: 47.101; SS	Patricia Trela
2776	47.272-021	Abnormal Psychology	M-Th	10:15 am-12:15 pm	3	P: 47.101; SS	Kenneth Lombart
2777	47.328-021	Dynamics of Interpersonal Relations	M/W	6:00-9:00 pm	3	P: 47.101	Peter Hantzis
2778	47.352-021 <b>NEW!</b>	Psychological Testing	M-Th	12:30-2:30 pm	3	P: 47.101	Sara Rondeau
1857	47.475-021	Seminar: Clinical Psychology – Intervention	M/W	2:45-5:45 pm	3	P: 47.101, and 47.232 or 47.272 or related experience	Peter Hantzis
<b>SOCIOLOGY</b>							
1938	48.101-021	Introduction to Sociology	M-Th	8:00-10:00 am	3	SSDE	Levon Chorbajian
1939	48.340-021	Sociology of Sports	T/Th	7:00-10:00 pm	3	P: 48.101	Levon Chorbajian
2779	48.345-021	Urban Sociology	M-Th	10:15 am-12:15 pm	3	P: 48.101	Arturo Ramos-Dalmau
2780	48.382-021	Social Movements	M-Th	10:15 am-12:15 pm	3	P: 48.101	Richard Hudak
<b>WOMEN'S STUDIES</b>							
2147	41.381-021	Women and the Law	M/W	7:00-10:00 pm	3		Department Faculty
2808	74.455-021 <b>NEW!</b>	Women in Music	M-Th	10:15 am-12:15 pm	3		Tim Crain

# GRADUATE CREDIT COURSES

## Graduate Courses Summer Session I

Except as noted: Day classes begin on May 26.

M/W Evening Classes begin on May 27 and include 3 FRIDAYS: May 29, June 12 and June 26 at the regularly scheduled hours.

T/Th Evening Classes begin on May 26 and include 2 FRIDAYS: June 5 and June 19 at the regularly scheduled hours.

Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions office at 800-656-GRAD or [www.uml.edu/grad](http://www.uml.edu/grad). In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>BUSINESS ADMINISTRATION</b>							
1953	60.501-031	Financial Accounting (5/26-7/17/09)	> Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students, requires knowledge of Excel; requires proctored exams	Stefanie Tate
2254	60.688-061	Current Topics in Accounting: Tax Factors in Business Decisions (5/26-7/31/09)	> Online Course		3	P: 60.501, MBA matriculated students and completion of MBA Foundation courses	Kevin Wall
2809	60.688-062	Current Topics in Accounting: Globalization and Accounting (5/26-7/31/09)	> Online Course		3	P: 60.601; MBA matriculated students and completion of MBA Foundation courses	George Joseph
2189	61.501-031	Business Financial Analysis (5/26-7/17/09)	> Online Course		2	Open to MBA, Business Certificate or Doctor of Engineering students	Yash Puri
2949	61.601-011	Corporate Finance	M/W	6:00-9:15 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Devendra Prasad
2948	61.735-011	Portfolio and Security Analysis	T/Th	6:00-9:15 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Devendra Prasad
1955	62.501-031	Marketing Fundamentals (5/26-7/17/09)	> Online Course		2	Open to MBA, Business Certificate or Doctor of Engineering students	Duncan LaBay
1956	62.601-061	Analysis of Customers and Markets (5/26-7/31/09)	> Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	Eunsang Yoon
2810	62.688-061	Current Topics in Marketing: Sustainable Marketing (5/26-7/31/09)	> Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	Eunsang Yoon
1958	63.501-031	Operations Fundamentals (5/26-7/17/09)	> Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students	M. Riaz Khan
2811	63.601-061	Management Information Systems (5/26-7/31/09)	> Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	Luvai Motiwalla
3024	63.671-031	Operations Management (5/26-8/14/09)	> Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	David Lewis
2092	63.688-061	Current Topics in Management Information Systems: Knowledge Management (5/26-7/31/09)	> Online Course		3	P: 63.601, MBA matriculated students and completion of MBA Foundation courses	Edward Chen
1960	66.501-031	Organizational Behavior (5/26-7/17/09)	> Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students	Stuart Freedman
2936	66.688-011	Current Topics in Management: Mid-Management Skills for the New Business Environment	M/W	6:00-9:15 pm	3	P: 66.601 or 66.725, MBA matriculated students and completion of MBA Foundation courses	Timm Kainen
2326	66.688-061	Current Topics in Management: Corporate Entrepreneurship (5/26-7/31/09)	> Online Course		3	P: 66.601 or 66.725, MBA matriculated students, completion of MBA Foundation courses and permission of instructor	Ashwin Mehta
1961	66.691-061	Strategy (5/26-7/31/09)	> Online Course		3	P: 60.601, 61.601, 62.601, 64.601, 66.601; MBA matriculated students	Ashwin Mehta
2813	66.725-011	Negotiations	T/Th	6:00-9:15 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Timm Kainen
NOTE: The above MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Coordinator, Kathleen Rourke, at 978-934-2848 for permission to take courses.							
<b>COMPUTER SCIENCE</b>							
1991	91.516-021*	Operating Systems (5/26-8/14/09)	Thurs	5:30-8:30 pm	3		William Moloney
2814	91.580-021*	Topics in Computer Science: Statistical Inference and Data Mining (5/26-8/14/09)	Thurs	5:30-8:30 pm	3	P: 92.386 or equivalent	Lee Jones
*Requires permission of Graduate Computer Science Coordinator							
<b>CRIMINAL JUSTICE</b>							
1929	44.503-061	Administration of Justice ((5/27-7/31/09)	> Online Course		3		Larry J. Siegel
1930	44.521-061	Criminological Theory (5/27-7/31/09)	> Online Course		3		Larry J. Siegel
2256	44.542-061	Criminal Profiling (5/26-7/31/09)	> Online Course		3		Allan Roscoe
2158	44.543-061	Forensic Psychology (5/26-7/31/09)	> Online Course		3		Ira Packer
1931	44.545-061	Criminal Mind and Behavior (5/26-7/31/09)	> Online Course		3		Alan Lincoln
2020	44.549-061	Terrorism (5/26-7/31/09)	> Online Course		3		Allan Roscoe
2159	44.567-061	Overview of Homeland Security (5/26-7/31/09)	> Online Course		3		Timothy Croft
2330	44.570-062	Managing Criminal Justice Organizations (5/26-7/31/09)	> Online Course		3		Eve Buzawa
2021	44.580-061	Quantitative Research (5/26-7/31/09)	> Online Course		3		Donald Faggiani
2022	44.590-061	Research Methods in CJ (5/26-7/31/09)	> Online Course		3		Donald Faggiani
3001	44.594-061	Crime Analysis and Mapping (5/26-7/31/09)	> Online Course		3		Jacob Stowell
2815	44.622-061	Intimate Partner Violence (5/26-7/31/09)	> Online Course		3		Eve Buzawa
2257	44.624-061	Violence in America (5/26-7/31/09)	> Online Course		3		James Byrne
2160	44.646-061	Sex Offenses and Offenders (5/26-7/31/09)	> Online Course		3		Andrew Harris

For permission numbers and questions regarding the Criminal Justice Program, please email [Karen\\_Mullins@uml.edu](mailto:Karen_Mullins@uml.edu).



GRADUATE COURSE LISTINGS

Graduate Courses

Summer Session I

Continued

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
EDUCATION							
1075	01.625-061	Organization of Schools (5/26-7/31/09)		> Online Course	3	**CI	James Nehring
1074	05.630-041	Leadership and Learning: Professional Learning Communities (Blended Courses: on campus meetings: 11/6-7 and 7/6-10; online: 9/13-19, 10/4-10, 10/25-31)	M-Th Fri	9:00 am-3:00 pm 9:00 am-Noon	3	Please see ad on page 20 for details.	James Nehring
1073	01.630-061	Diversity Issues for School Leaders (5/26-7/31/09)		One weekend; Nov 6 & 7 > Online Course	3	5-9:00 pm; Sat 9:00 am-Noon **CI, EA, RL	Michaela Colombo
1040	04.638-061	Curriculum Design K-12 (5/26-7/31/09)		> Online Course	3	**CI, CI(sci)	J. Walsh/D. Troughton
1014	04.643-061	The Skillful Teacher (5/26-7/31/09)		> Online Course	3	**CI, CI(sci)	Robert Gower
1041	04.676-061	Exploring the Nature of Science (5/26-7/31/09)		> Online Course	3	**CI, CI(sci)	Anita Greenwood
1016	05.591-061 *	Practicum II: Supervisor/Director (5/26-7/31/09)		> Online Course	2	P: 05.590 and permission of instructor; **EA	Charles Christensen
1056	05.592-061 *	Practicum I: Elementary School Principal PK-6 (5/26-7/31/09)		> Online Course	1	P: Permission of instructor; **EA.	Charles Christensen
1018	05.594-061 *	Practicum I: Middle School Principal 5-8 (5/26-7/31/09)		> Online Course	1	P: Permission of instructor; **EA.	Charles Christensen
1020	05.596-061 *	Practicum I: High School Principal 9-12 (5/26-7/31/09)		> Online Course	1	P: Permission of instructor; **EA	Charles Christensen
1023	05.643-061	Principalship PK-12 (5/26-7/31/09)		> Online Course	3	**EA	Charles Christensen
1024	06.511-061	Teaching Reading in the Content Area (5/26-7/31/09)		> Online Course	3	**RL	Jay Simmons
1025	06.522-061	Young Adult Literature (5/26-7/31/09)		> Online Course	3	**RL	Lorraine Dagostino
1026	07.642-061	Program Evaluation (5/26-7/31/09)		> Online Course	3	**EA, CI, RL	Jill Lohmeier
1070	81.508-061	Cell Biology for Teachers (5/26-7/31/09)		> Online Course	3	**CI(sci); course participants will also be required to purchase a kit costing approximately \$35 as well as the textbook. Details for kit purchasing will be sent to course participants at the start of the summer session.	M. Mawn/A. Greenwood
1042	85.581-061	Meteorology for Science Teachers (5/26-7/31/09)		> Online Course	3	**CI(sci)	T. Vaughan/F. Colby
*Instructor's permission is required for this two-semester course, which may be taken after the candidate has completed 21 or more credits, and concurrent with the two remaining courses. **The Graduate School of Education offers Online Courses leading to three Masters of Education degrees: (1) Educational Administration (EA); (2) Reading and Language; (3) Curriculum and Instruction (CI) or Curriculum and Instruction: Science Concentration (CI)(sci). Additionally, three CAGS degrees are available. Some programs are open to Massachusetts teachers only. Please check the website for details at <a href="http://www.uml.edu/gse">www.uml.edu/gse</a> . The letters in the prerequisites column refer to which programs each course is aligned.							
ELECTRICAL AND COMPUTER ENGINEERING							
2907	16.508-031	NEW! Quantum Electronics for Engineers (5/26-8/14/09)		> Online Course	3	P: 16.363, 16.461	Joel Therrien
1907	16.510-011	Digital Signal Processing	T/Th	2:00-5:15 pm	3	P: 16.362, 16.363 preferred	Mufeed Mah'd
2908	16.511-061	NEW! Medical Diagnostic Imaging (5/26-7/31/09)		> Online Course	3		Mufeed Mah'd
2262	16.528-011	Alternate Energy Sources	M/W	6:00-9:15 pm	3	P: Permission of instructor	Ziyad Salameh
1835	16.529-011	Electric Vehicle Technology	T/Th	6:00-9:15 pm	3	P: Permission of instructor	Ziyad Salameh
2822	16.531-011	RF Design	T/Th	6:00-9:15 pm	3	P: Permission of instructor	Tenneti Rao
2935	16.577-011	Verification of Very Large Designs	T/Th	6:00-9:15 pm	3		James Moran
2823	16.590-011	Fiber Optic Communications	M/T/W	2:00-5:00 pm	3	P: Permission of instructor	Craig Armiento
2824	16.607-011	Electromagnetics of Complex Media	T/Th	6:00-9:15 pm	3	P: 16.507 or equivalent	Dikshitulu Kalluri
HEALTH							
2919	32.512-041	Operations Analysis and Quality Improvement (Blended Course: Online sessions on Wed.: 5/27, 6/3, 6/10, 6/17, 6/24, 7/1; Face-to-Face meetings at Yankee Alliance in Andover, MA on Mon.: 6/1, 6/8, 6/15, 6/22, 6/29)	M/W	5:30-8:30 pm	3		Cathy Spinney
2294	32.607-041	Healthcare Information Systems (Blended Course) Online sessions on Thurs.: 5/28, 6/4, 6/11, 6/18, 6/25; Face-to-Face meetings at Lowell General Hospital on Potash Hill Rd. in Tyngsborough, MA. on Tues.: 5/26, 6/2, 6/9, 6/16, 6/23, 6/30)	T/Th	5:30-8:30 pm	3		A. James Lee
2284	34.501-061	Pharmacology (5/26-7/31/09)		> Online Course	3		Daniel Kiel
1913	34.650-021	Clinical Education Experience I (5/25-7/17/09)	M-F	8:00 am-4:00 pm	3 (4)	P: First-Year Physical Therapy Grad students only	Keith Hallbourg
2264	34.652-021	Clinical Education Experience II (6/22-8/14/09)	M-F	8:00 am-4:00 pm	3 (4)	P: Clinical Ed. Experience I, second-year Physical Therapy graduate students only	Keith Hallbourg
MATHEMATICS							
2003	92.500-061	Discrete Structures (5/26-7/31/09)		> Online Course	3		Alan Doerr
2120	92.509-021	Probability and Mathematical Statistics (5/26-8/14/09)	Mon	5:30-8:30 pm	3		Lee Jones
2083	92.550-011	Mathematical Modeling	M/W	6:00-9:15 pm	3		James Graham-Eagle
2221	92.576-011	Statistical Programming Using SAS	M/W	6:00-9:15 pm	3		Loren Lidsky
2023	92.578-021	Statistical Inference and Data Mining (5/26-8/14/09)	Thurs	5:30-8:30 pm	3	P: 92.386 or equivalent	Lee Jones
MECHANICAL ENGINEERING							
1909	22.512-061	Applied Finite Elements (5/26-7/31/09)		> Online Course	3	P: Requires instructor permission; access to a PC; \$100 course fee for software; required on-campus course orientation, May 26, 6:00 pm	Jennifer Gorczycka
PSYCHOLOGY							
2024	47.561-031	Introduction to Behavioral Intervention in Autism (5/26-8/21/09)		> Online Course	3	Coursework in the psychology of child development, or related experience	Alicia Perry
2094	47.561-032	Introduction to Behavioral Intervention in Autism (5/26-8/21/09)		> Online Course	3	P: Coursework in the psychology of child development, or related experience	Richard Serna
2025	47.562-031	Teaching and Positive Behavioral Support in Autism (5/26-8/21/09)		> Online Course	3	P: 47.561	Katherine Falwell
2126	47.562-032	Teaching and Positive Behavioral Support in Autism (5/26-8/21/09)		> Online Course	3	P: 47.561	Eric Boelter
2026	47.565-031	Measurement and Experimental Design in Behavioral Autism (5/26-8/21/09)		> Online Course	3	P: 47.561	SungWoo Kahng
2291	47.565-032	Measurement and Experimental Design in Behavioral Autism (5/26-8/21/09)		> Online Course	3	P: 47.561	David Kuhn
2027	47.566-031	Functional Analysis and Treatment of Challenging Behavior (5/26-8/21/09)		> Online Course	3	P: 47.562	Stephanie Contrucci-Kuhn
2356	47.566-032	Functional Analysis and Treatment of Challenging Behavior (5/26-8/21/09)		> Online Course	3	P: 47.562	Carrie Borrero
2127	47.568-031	Behavioral Intervention Program Models in Autism (5/26-8/21/09)		> Online Course	3	P: 47.562	Jennifer Crockett
2268	47.568-032	Behavioral Intervention Program Models in Autism (5/26-8/21/09)		> Online Course	3	P: 47.562	Karen Wagner
REGIONAL ECONOMIC AND SOCIAL DEVELOPMENT							
2259	57.512-011	Community Conflict Resolution	T/Th	6:00-9:15 pm	3		D. Turcotte/M. Zapata Turcotte
WORK ENVIRONMENT							
2260	19.559-011	Conflict Resolution	T/Th	6:00-9:15 pm	3		D. Turcotte/M. Zapata Turcotte



Graduate Courses  
Summer Session II

Except as noted: Day classes begin on July 6  
M/W Evening Classes begin on July 6 and include 2 FRIDAYS: July 17 and July 31 at the regularly scheduled hours.  
T/Th Evening Classes begin on July 7 and include 2 FRIDAYS: July 24 and August 7 at the regularly scheduled hours.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions office at 800-656-GRAD or [www.uml.edu/grad](http://www.uml.edu/grad). In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs. *Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.*

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
BUSINESS ADMINISTRATION							
1869	61.610-021	Financial Markets and Monetary Policy	T/Th	6:00-9:00 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Michael Carter
1873	66.688-021	Current Topics in Management: Advanced Professional Communications	M/W	6:00-9:00 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Richard Sherburne
NOTE: The above MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Coordinator, Kathleen Rourke, at 978-934-2848 for permission to take courses.							
ELECTRICAL AND COMPUTER ENGINEERING							
2076	16.560-021	Biomedical Instrumentation	T/Th	6:00-9:00 pm	3		Mufeed Mah'd
HEALTH							
2917	32.502-041	Organizational Behavior in Health Care (Blended Course: Online sessions on Thurs: 7/9, 7/16, 7/23, 7/30, 8/6; Face-to-Face meetings at Yankee Alliance in Andover, MA on Tues.: 7/7, 7/14, 7/21, 7/28, 8/4, 8/11.)	T/Th	5:30-8:30 pm	3		Michael O'Sullivan
2921	32.625-041	Health Policy: (Blended Course Online sessions on Thurs: 7/9, 7/16, 7/23, 7/30, 8/6; Face-to-Face meetings at Lowell General Hospital in Lowell, MA on Tues: 7/7, 7/14, 7/21, 7/28, 8/4, 8/11.)	T/Th	5:30-8:30 pm	3		Robert Holmes
MATHEMATICS							
2004	92.527-021	Geometry	T/Th	8:30-11:30 am	3	Course is generally applicable only to the Teacher Option	Marvin Stick
	92.535-021	History of Mathematics	M/W	8:30-11:30 am	3		M. Beyranevand
MUSIC							
2991	73.578-021	Music/Way of Knowing	July 20-22	9:00 am-4:00 pm	2	Please see ad on page 20 for details.	Nick Page
2992	73.583-021	Intro to Tech. Apps for the Music Classroom	July 22-24	9:00 am-4:00 pm	2	Please see ad on page 20 for details.	Pat Fitzpatrick

GENERAL INFORMATION

General Information

Registrar's Office Hours

Dugan Hall 101, UML South  
Monday-Thursday: 8:30 am-8:00pm  
Friday: 8:30 am-5:00 pm

Continuing Studies, Corporate and Distance Education Office Hours

Southwick 202, UML North  
Monday-Thursday: 8:30 am-8:00 pm  
Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

May 25: Memorial Day (University closed)  
July 4: Independence Day (University Closed)

From July 1 through July 3, CSCDE and the Registrar's Office will be open from 8:30 am-5:00 pm (closed July 4).

Commencement: May 30, 2009

Phone Directory

Accounts Receivable.....(978) 934-3570  
Bookstore — UML North.....(978) 934-2623  
Bookstore — UML South.....(978) 934-6908  
Continuing Studies  
Main Number.....(978) 934-2474  
Faculty and Student Support Center.....(978) 934-2474  
Fax Number.....(978) 934-4006  
Online Technical Support.....(978) 934-2467  
Registrar's Office.....(978) 934-2550  
Fax Number.....(978) 934-4076  
Graduate School of Education.....(978) 934-4600  
ISIS HELP Desk.....(978) 934-4357  
Library — UML North  
(Alumni/Lydon).....(978) 934-3205  
Library — UML South  
(O'Leary).....(978) 934-4550  
UMass Lowell Main Number.....(978) 934-4000  
UMass Lowell Directions.....(978) 934-5800  
or [www.uml.edu/maps](http://www.uml.edu/maps)  
Weather Cancellations.....(978) 934-2121  
Billing Information.....(978) 934-3570

See our Website at <http://continuinged.uml.edu>

You can also visit the Graduate Programs Website at [www.uml.edu/grad](http://www.uml.edu/grad)

REGISTER EARLY

Get a head start and register early! Although we cannot guarantee an opening in any class, your chances for being enrolled in the course of your choice are better when you register early. Please note that seats in laboratory courses are limited.

Registration Information

See Academic Calendar on page 18 for appropriate registration deadlines.

Student Information System

When using ISIS, the new Student Information System, Undergraduate, Graduate, and Continuing Studies students are able to perform the following transactions:

- search the course catalog and schedule of classes
- register for classes as well as add, drop and swap classes
- request official transcripts and designate the recipients of transcripts
- pay a bill
- accept and decline financial aid

Students also can access and print their:

- class schedules located under "View my class schedule"
- grades
- unofficial transcripts
- degree audit (View progress made toward a degree)
- advisor's name
- student invoice
- financial aid information

For more information, check out the "More Info" section at: <http://www.uml.edu/it/isis/studentss.html>  
If you have a problem accessing your account, please contact the help desk at (978) 934-4357.

**Returning students** (i.e., students who have been enrolled in a course at any time during the last three semesters) may register and pay for courses online by using ISIS (Inter-Campus Student Information System). Returning students will have a User ID generated for them. To look up your ID, go to <http://isis.uml.edu> and click User ID Lookup. Once you have obtained your User ID, follow these easy steps to register for classes.

1. From any PC with an internet connection, go to <http://isis.uml.edu>
2. Click **Student Self-Service Login**.
3. Enter your User ID and password into the appropriate fields and click **Submit**.
4. Click **Academics**.
5. Click **Enroll in a Class**.
6. Select **Term**.
7. Click **Add Classes**.
8. Type the **Class Number** in the **Class Nbr** field. Please note, the class number is different from the course number.
9. You can search for the class number by clicking the magnifying glass. Enter the first two digits of the course number (found in the bulletin), into the subject area. Then enter the following three numbers of the course number into the catalog number box and then hit search. You can also find the class number and the course number on the CSCDE website <http://continuinged.uml.edu> or [www.uml.edu/admin/registrar](http://www.uml.edu/admin/registrar) or in the CSCDE bulletin. **Repeat Step 8 until all desired classes have been added.**
10. Click the **Submit** button.

**New students to the University must use the mail, fax, or walk-in options to register.**

Once the new student registration has been processed by the Registrar's Office, the student will receive an email to his/her personal email account (if provided) or receive a letter mailed to his/her home. The student should check

<http://isis.uml.edu> and then click on the User ID lookup. You can also access the new student checklist and information on online course confirmation (if applicable) available at <http://continuinged.uml.edu>. After you have obtained your ID number, you can log into <http://isis.uml.edu> and view your schedule.

**Mail-In Registration:**

Fill out the registration form and return it to:

1. University of Massachusetts Lowell  
Registrar's Office  
883 Broadway Street, Dugan 101  
Lowell, MA 01854-5129
2. For classroom location and other scheduling information, please visit the Inter-Campus Student Information System (ISIS).

**Fax-In Registration:**

Fill out the registration form and fax it to (978) 934-4076.

**Walk-In Registration is held at the Registrar's Office, 883 Broadway Street, Dugan Hall 101, UML South, Lowell, MA 01854-5129.**

Please refer to the Registrar's Office for walk-in registration hours. Students are encouraged to use ISIS, the Web-Based Self-Service System, whenever possible. Students taking online courses must obtain a UML email address as well as a log-on password. Please see the New Student Registration Form and Checklist posted on the CSCDE or UML Registrar's website. The checklist will facilitate the process to access your online courses.

**Wait Listing**

You may now put yourself on a wait list through ISIS if the course you want is full. When you try to register for a closed course, the system will ask you if you want to be put on a wait list. The wait list function also allows you to list a course you would like to drop if you are allowed into the closed course.

If space becomes available in a course, the wait list function will add you into the class in the order of your request. Please note that you **will not be notified** if you are put into the closed course. Check your schedule in ISIS to see if you are registered for the closed course.

If you no longer wish to register for a course you are wait listed for, you must remove yourself from the wait list through ISIS. If you do not remove yourself from the wait list, you run the risk of being registered for a course and will be responsible for the grade received as well as the tuition and fees incurred.

First time students may request to be put on the wait list by filling out the form located at: <http://www.uml.edu/admin/registrar/docs/waitlist.pdf> and faxing it to the number indicated.

**Email**

A significant number of important communications will be delivered to students via University email. Information about the availability of class schedules, course cancellations, grade reports and financial awards that can be accessed using ISIS, the Web-Based Self-Service, will be sent to students via email.

To address this change in practice, UMass Lowell has a robust email system and assigned UML email addresses to all students, including those enrolled in Continuing Studies courses. In addition, a policy has been approved that supports email as an official means of communication and assigns responsibility to students for maintaining their UML email accounts.

Students should be using their UML accounts with the @student.uml.edu suffix to ensure they receive important communications from the University. Please see <http://email.uml.edu> and check the student email link. New students will receive a letter from the Information Technology Office with their new UML email address.



## REGISTRATION INFORMATION

### Emergency Contact Information

Responding to increased concerns about security issues of all kinds on University campuses nationwide, we have initiated a process to require students to provide and/or verify **Emergency Contact Information** on a regular basis. This information will be used to contact designated individuals in the event of an emergency involving you as a student on campus. When you first log into ISIS for any reason this semester, you will notice an entry in Your Holds Summary indicating **Emergency Contact Verification**. This "Hold" will prevent all Registration/Add/Drop/Swap a Class activity until you take action to verify your Emergency Contact Information. You will be able to release this hold yourself through ISIS by clicking on the hold and following the instructions. We encourage you to be proactive and verify this information **BEFORE** you actually need to register for classes or use Add/Drop/Swap a Class functionality in ISIS. For assistance, a Help document has been posted on the ISIS website.

### Emergency Notification

Sign up for the UML Emergency Notification System at <https://uml.ecoport.com/emergency/jsp/home/home.jsp>.

### Identification Card

All CSCDE students who are using facilities on campus are required to obtain a photo ID card from the Access Services Office located in the UML South Dining Hall. The ID card is needed to access gated parking lots and labs. The office is open Monday through Friday from 8:30 a.m. to 5:00 p.m. Contact the Access Services Office at (978) 934-4211, email: [Access\\_Services@uml.edu](mailto:Access_Services@uml.edu), if you have any questions.

### Student ID Number

Your student ID number is your ISIS/UMass System number. To obtain your number go to <http://isis.uml.edu> and click on the user ID look up.

### Institutional Disclosure

The University is required to disclose the availability of various types of information related to Federal programs and mandates under the Higher Education Acts. This information is located on the UML web at: [http://continuinged.uml.edu/general/inst\\_disclosure.htm](http://continuinged.uml.edu/general/inst_disclosure.htm)

### Students with Disabilities

A student with a disability who needs special arrangements should contact the Counseling Center, at (978) 934-4574 early in the registration process. Special advising, registration assistance, preferential scheduling, and alternative examination procedures are available. Special parking is also available on a temporary basis.

### The University's Annual Campus Crime and Safety Report

Under the Regulations of the Safe and Drug-Free Schools and Communities Act and the Jeanne Clery Act (formerly the Campus Security Act), the University is required to distribute annually to all faculty, staff and students a copy of the Annual Crime Report and the University's Policies and Procedures related to alcohol, other drugs, and sexual assault. These regulations permit us to publish this report electronically, and the current report is available on the internet at <http://www.uml.edu/police>.

### Bookstore Locations

UML North — Falmouth First Floor, (978) 934-2623  
UML South — UML South Dining Hall, (978) 934-6908

Please call the Bookstore to confirm the location of your textbook.

Students taking online courses can order books through the UMass Lowell Bookstore at <http://umlowell.bkstore.com>.

## Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour. See information on Financial Aid, TERI Loans, and Scholarships on our website at <http://continuinged.uml.edu>.

### Tuition and Fee Information

	Per Credit/ Contact Hr.
Undergraduate Tuition	\$290.00
Undergraduate Audit	\$290.00
Undergraduate Off-Campus Courses/Audit*	\$290.00 to \$315.00
Undergraduate Online Courses	\$330.00
Undergraduate Online Courses Audit	\$330.00
Graduate Online, On-Campus and Off-Campus Courses and Audit (Other than M.B.A. online)	\$475.00
M.B.A. Online Courses	\$530.00
Registration Fee per Term (non-refundable)	\$30.00
Late Fee for Non Payment	\$50.00
Fee for Undergraduate Degree application	\$40.00

**Please note:** Cost per credit includes access fee (parking and access to Blackboard).

**\*Note:** Some tuitions may vary depending on customization and customer and program requirements.

**Please note:** Graduate students will be assessed a "First Year Student Services Fee" upon matriculation into a graduate degree or certificate program.

Please see the Student Financial Services website at <http://www.uml.edu/admin/ar/tuition.html> for more information. Students who have checks returned due to insufficient funds will be charged a \$30.00 insufficient funds fee.

### Payment Options

Payments may be made by cash, check, money order, M/C, Visa and Discover. Mail payments (made payable to UMass Lowell) to:

UMASS LOWELL  
Attn: Bursar's Office  
883 Broadway St., Room 103  
Lowell, MA 01854-5109

Payments may also be made in person at the cashier's window, Room 103, Dugan Hall, UML South.

Please note, a cash payment cannot be accepted after 4 pm. Students may also make a payment or view accounts online by logging on to the Student Information System (ISIS).

### Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. All students are advised that the University uses the services of collection agencies authorized under the Commonwealth's Master Service Agreement. Students with a prior semester balance who are not enrolled for the current semester and are referred to a collection agency are held liable for all associated collection costs which may be substantial.

### Directed Studies

Directed Studies, Practicums, Internships, and Applied Music Lessons are considered Special Programs and, as such, tuition remission, waivers, and certificates of eligibility cannot be accepted.

### NOTE: Veterans' Information

Veterans must be matriculated in an undergraduate degree program and have all appropriate paperwork on file in the Registrar's Office, UML South, Dugan Hall 101, 883 Broadway Street, Lowell. For additional information, please see the website at [http://www.uml.edu/admin/registrar/veterans/Veterans\\_Tuition\\_Waiver.html](http://www.uml.edu/admin/registrar/veterans/Veterans_Tuition_Waiver.html) for detailed information.

Veterans' waivers are available for on-campus undergraduate courses provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Due to the high cost of online and off-campus courses, there are no waivers available for these courses. There are no waivers for Directed Studies, Practicums, and Internships. Merit and Need-Based Assistance Grants for online courses may be available to veterans who are presently enrolled in undergraduate degree and certificate programs and who are making satisfactory academic progress towards their degrees or certificates.

### International Students

International students registering for Continuing Studies classes or enrolling in programs must provide proof of Visa status. Please submit a copy of your current Visa with your registration form. Students with F-1 or J-1 Visa status must provide a copy of their I-20 or DS-2019 form. These students will be allowed to count, per semester, only one distance learning (online) course, or 3 credits, toward the full-time undergraduate course load (12 hours) or the full-time graduate course load (9 hours). The ultimate responsibility to know and follow the USCIS rules rests upon the students themselves. Students holding B-1, B-2, or F-2 Visas may not register for any academic classes. The University of Massachusetts Lowell does not issue I-20 Forms to students for any Continuing Studies programs. Please contact the International Students and Scholars Office at [ISSO@uml.edu](mailto:ISSO@uml.edu) with any questions.

### Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must mail original authorization forms to UMass Lowell, Student Financial Services Office, 883 Broadway Street, Room 101, Lowell, MA 01854-5110. Copies and/or faxes of tuition waivers can-

## Academic Calendar

### Summer 2009



Continuing Studies offers students a variety of scheduling options to meet their needs.

1. Ten-week online classes meet from May 26 through July 31.
2. Twelve-week online classes meet from May 26 through August 14.
3. A number of courses meet one day a week spanning May 26 through August 14.

### May 26–June 30

## Summer Session I

#### Face-to-Face Classes

Day classes begin on Tuesday, May 26.

M/W Evening classes begin on Wednesday, May 27 and include 3 FRIDAYS: May 29, June 12 and June 26 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, May 26 and include 2 FRIDAYS: June 5 and June 19 at the regularly scheduled hours.

#### Final Examinations

Day Classes: June 25 for 3-credit courses,  
June 30 for 4-credit courses  
M/W Evening Classes: Monday, June 29  
T/Th Evening Classes: Tuesday, June 30

### July 6–August 14

## Summer Session II

#### Face-to-Face Classes

Day Classes begin on Monday, July 6.

M/W Evening classes begin on Monday, July 6 and include 2 FRIDAYS: July 17 and July 31 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, July 7 and include 2 FRIDAYS: July 24 and August 7 at the regularly scheduled hours.

#### Final Examinations

Day Classes: August 10 for 3-credit courses,  
August 12 for 4-credit courses  
M/W Evening Classes: Wednesday, August 12  
T/Th Evening Classes: Thursday, August 13

### Add/Drop Period

Undergraduate	Add	Drop
<b>On-Campus Course</b>		
<b>Summer I</b> <b>5/26-6/30</b>	6/1 without permission 6/8 with permission	6/8
<b>Summer II</b> <b>7/6-8/14</b>	7/10 without permission 7/17 with permission	7/17
<b>Accelerated Online Courses (10-Week)</b> (Section -061)		
5/26 -7/31	6/1 without permission 6/8 with permission	6/8
<b>Full Term (Spanning both sessions)</b>		
<b>Face-to-Face Courses and Online Courses</b> (Section -031)		
5/26-8/14	6/1 without permission 6/8 with permission	6/8

Graduate	Add	Drop
<b>On-Campus and Off-Campus Courses</b> (Section -041)		
<b>Summer I</b> <b>5/26-6/30</b>	6/8	6/8
<b>Summer II</b> <b>7/6-8/14</b>	7/17	7/17
<b>Accelerated Online Courses (10-Week)</b> (Section -061)		
5/26-7/31	6/8	6/8
<b>Full Term (Spanning both sessions)</b>		
<b>Face-to-Face Courses and Online Courses</b> (Section -031)		
5/26-8/14	6/8	6/8
<b>8-Week Online Courses (MBA)</b> (Section -031)		
5/26-7/17	6/8	6/8

Add/Drops can be processed in ISIS or Registrar's Office, UML South, Dugan Hall 101, 883 Broadway Street, Lowell.

### Withdrawal with "W" Notation

#### Undergraduate

##### On-Campus Courses

<b>Summer I</b> 5/26-6/30	6/19
<b>Summer II</b> 7/6-8/14	7/30

##### Accelerated Online Courses (10-Week)

(Section -061)

5/26-7/31	7/17
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##### Full Term (Spanning both sessions)

<b>Face-to-Face Courses and Online Courses</b> (Section -031)	
5/26-8/14	7/30

#### Graduate

##### On-Campus and Off-Campus Courses

(Section -041)

<b>Summer I</b> 5/26-6/30	6/23
<b>Summer II</b> 7/6-8/14	8/7

##### Accelerated Online Courses (10-Week)

(Section -061)

5/26-7/31	7/24
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##### Full Term (Spanning both sessions)

<b>Face-to-Face Courses and Online Courses</b> (Section -031)	
5/26-8/14	8/7

##### 8-Week Online Courses (MBA)

(Section -031)

5/26-7/17	7/10
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Students withdrawing from any class can do so by using ISIS, <http://isis.uml.edu>



not be honored. No tuition refund is awarded for late submission of eligibility form. Students receiving company reimbursement must prepay their own tuition. The University does not honor company reimbursement contingent upon grades.

#### NOTE:

##### Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend classes in Continuing Studies credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available.

**Please note that waivers are not retroactive and do not cover registration and other fees.** Proof of Massachusetts residency and birth date must be provided annually at the time of registration. There are no waivers available for online and off-campus courses.

##### Refund Schedule for Tuition and Fees

Students who withdraw from the University or drop all of their courses during the add/drop period will receive a 100% adjustment to tuition and fees for the semester except for the following:

- 1) The Continuing Studies \$30.00 non-refundable Registration Fee per term.
- 2) Students who are suspended or expelled for disciplinary reasons will forfeit all rights to a tuition and fee adjustment.
- 3) Any book voucher monies advanced to students and used at the bookstore. Students should contact Barnes and Noble at (978) 934-2623 for the bookstore refund policy on books and materials purchased directly from them.

**Please note: There are no adjustments to tuition and fee charges if students withdraw or drop classes after the add/drop period of the academic semester.**

Student records will be cleared and appropriate refunds will be awarded only after outstanding University bills (library fines, parking fines, etc.) are paid and all University-owned property is returned. If debts remain unpaid, students' academic permanent records will not be released and students will not be readmitted to the University.

##### Health Insurance

All students enrolled in 9 or more credits will be charged for health insurance. Students who have comparable health insurance may apply on ISIS to waive the charge. Please see the Accounts Receivable website and the Health Services website at [www.uml.edu](http://www.uml.edu). Please note that all students who withdraw from or drop all of their classes within the first 30 days (calendar days) of the academic semester are not allowed to be enrolled in the University student health insurance plan.

##### Financial Aid

All students who are financial aid recipients are reminded that their aid is also reduced and the financial aid adjustment schedule may be different than what has been stated above as required by federal law. Students are strongly encouraged to discuss these issues with a financial aid counselor prior to withdrawing. Please note that money will be returned to the applicable financial aid assistance programs before any money is disbursed to the student.

##### International Students

The International Students and Scholars Office will notify the United States Citizenship and Immigration Services (USCIS) of all international students who either withdraw or drop below full-time status during the academic semester.

##### Graduate Teaching and/or Research Assistants

Graduate Teaching Assistant and/or Graduate Research Assistant contracts will be voided if students drop below full-time status.

##### Correct Social Security Number/Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take the Hope credit or Lifetime Learning credit to reduce the federal income tax.

**For additional information on Financial policies and procedures, see [www.uml.edu/admin/ar](http://www.uml.edu/admin/ar)**

## Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The programs in Civil Engineering Technology, Electronic Engineering Technology, and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

##### Catalog

Students should refer to the Continuing Studies and Corporate Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available online at <http://continuing.uml.edu>.

##### Admission into an Undergraduate Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Applications for all programs are accepted on a rolling admissions basis. Please send applications to UML Admissions/Continuing Studies and Corporate Education, c/o Kathleen Shannon, Dugan Hall 110, 883 Broadway Street, Lowell, MA 01854-5104. Note, there is a \$40 application fee for admission into the undergraduate degree programs. Please mail the fee along with your completed degree program application form. For a listing of our degree and certificate programs, please see pages 3-6. A student enrolled in any of our degree or certificate programs should schedule an appointment with the appropriate program advisor to help plan a schedule for degree or certificate completion. Please call Continuing Studies at (978) 934-2474 to learn about our programs or see our website at <http://continuing.uml.edu>

##### Admission into a Graduate Certificate or Degree Program

Students interested in applying into Graduate degree or certificate programs should access [www.uml.edu/grad](http://www.uml.edu/grad). Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Students must formally apply to Graduate certificate programs before enrolling in Graduate courses intended for specific certificate programs.

##### Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2008-2009 academic year must arrange for a graduation interview. Please call Continuing Studies at (978) 934-2474. Students who anticipate graduating at the end of the Spring 2009 semester must complete the interview process by April 24, 2009. Students who anticipate graduating at the end of the Summer 2009 semester must complete the interview process by June 27, 2009.

##### Commencement will be held on May 30, 2009.

##### Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition and exit survey to Continuing Studies. See the Continuing Studies website under Miscellaneous Forms at <http://continuing.uml.edu>. Please note: Students must have already applied for admission into a certificate program when completing the certificate requirement. Failure to do so may affect the date for the certificate award. Certificates are awarded three times a year: spring, summer and fall.

##### Course Grades

Grades for the Summer semester will be available on ISIS, the Intercampus Student Information System.

## Faculty & Student Support Information

Students are welcome to drop by Continuing Studies, located in the Paley Room, Southwick Hall 202, UML North from 8:30 am to 8:00 pm Monday-Thursday and 8:30 am to 5:00 pm Friday to obtain general information on Associate's and Bachelor's degrees and certificate programs, and/or to obtain brochures. Call (978) 934-2474 for information or email to [Continuing\\_Education@uml.edu](mailto:Continuing_Education@uml.edu). For questions on Graduate programs, see the website at [www.uml.edu/grad](http://www.uml.edu/grad).

##### Appointments with Faculty Program Coordinators

Students are encouraged to review their transcripts and their curriculum programs. Students may schedule appointments with Faculty Program Coordinators and Faculty and Student Support Specialists to discuss transcript issues, program degree requirements and other academic matters. In addition, Faculty Evening Supervisors are available to answer questions and conduct status reviews. Students are encouraged to call Continuing Studies and Corporate Education at (978) 934-2474 to schedule an appointment. Most appointments are held on UML North in the Faculty and Student Support Center. Appointments for the Liberal Arts programs are held in Coburn Hall, Room 105, UML South. Phone interviews also are available. You may also email our Program Coordinators and Faculty Support Specialists.

##### Faculty Program Coordinators and Advisors

Biology, Chemistry, Environmental Science, Physics:  
Paul Damour, Associate Professor  
Civil Engineering Technology:  
Michael Berry  
Electronic Engineering Technology:  
Fahd Wakim, Professor  
Luciano Boglione, Assistant Professor  
Information Technology:  
Ann Marie Hurley, Professor  
Liberal Arts, Criminal Justice, Paralegal Studies:  
Joseph Lipchitz, Professor  
Mathematics: Alan Doerr, Professor  
Mechanical Engineering Technology:  
Robert Tuholski, Professor,  
Engineering Technology Department Head  
Glenn Sundberg, Associate Professor  
Plastics Engineering Technology:  
Stephen Driscoll, Professor

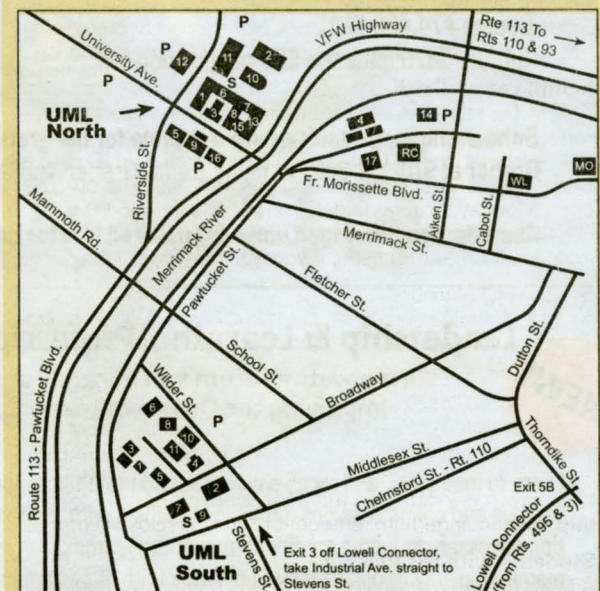
##### Psychology:

Mary Duell, Visiting Assistant Professor  
Richard Siegel, Professor

##### Faculty Evening Supervisors

Professor Alan Doerr  
Professor Bernard Shapiro

## Campus Information



North	South
1 BL Ball Engineering Ctr.	1 Allen Hall
2 Costello Gym	2 CO Coburn
3 Cummock Hall	3 Concordia Hall
4 Dormitories	4 Dining Hall
5 Eames Hall	5 DU Dugan Hall
6 EB Engineering	6 DR Durgin Hall
7 FA Falmouth	7 MA Mahoney Hall
8 KI Kitson	8 OL O'Leary Library
9 LL Alumni/Lydon Library	9 Power Plant
10 EC Pinanski	10 SU Student Union
11 OH Olney	11 WE Weed Hall
12 OS Olsen	P Parking
13 PA Pasteur	S Security
14 Research Foundation	
15 SO Southwick Hall	<b>Downtown</b>
16 Smith Hall	MO Mogan Center
17 FOX Fox Student Union	WL Wannalancit
RC Recreation Center	
P Parking	
S Security	

##### Directions

For UMass Lowell online directions, go to [www.uml.edu/maps](http://www.uml.edu/maps). For UMass Lowell directions, call (978) 934-5800.

##### Parking & Decals

New parking permits and decals are required for all Continuing Studies students. Complete parking information and the permit registration form are available at <http://parking.uml.edu>. Permits are also available at the Access Services Offices in the UML South Dining Hall. Please note that cost for the parking permit for CSCDE students is included in the per credit hour tuition cost.

The permit entitles students to park in any commuter parking lot. Students and faculty should not compromise public safety by blocking access of fire lanes, ambulance and other emergency vehicles. Students and faculty should not park in handicap spaces unless they display a handicap sticker. Student and faculty cars will be towed and/or ticketed for violations. In addition, the Lowell Police will tow student and faculty cars if cars are parked in "Residential Parking" areas.

Please call the Access Services Office at (978) 934-4211 for additional information.

##### Locating Your Classroom

Refer to the map and building key above to locate where your class will be held. If your class has not been assigned a classroom when you register, please check ISIS Web Self-Service at <http://isis.uml.edu>.

This newspaper is printed at no cost to the Commonwealth of Massachusetts. The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex, sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Continuing Studies, Corporate & Distance Education (CSCDE) reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Continuing Studies exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, CSCDE assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Continuing Studies — which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities. In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.



## Summer 2009 Programs for Teachers

### Summer Music Education

Acquire new knowledge and earn academic credits!

#### Computers in the Music Curriculum

July 6-10, 9 am-4 pm

3 undergraduate credits

Course #73.463-021

Tuition: \$870, plus the \$30 registration fee

#### Seminar in Music History: Film Music in the Classroom

July 6-10, 9 am-4 pm

3 undergraduate credits

Course #74.498-021

Tuition: \$870, plus the \$30 registration fee

#### Music/Way of Knowing

July 20-22, 9 am-4 pm

2 graduate credits

Course #73.578-021

Tuition: \$950, plus the \$30 registration fee

#### Intro to Technology Applications for the Music Classroom

July 22-24, 9 am-4 pm

2 graduate credits

Course #73.583-021

Tuition: \$950, plus the \$30 registration fee

Scholarship opportunities are available for the graduate music courses. Please contact Gena Greher at 978-934-3893 or email [Gena\\_Greher@uml.edu](mailto:Gena_Greher@uml.edu) for more information.

See <http://continuinged.uml.edu/musiced.htm> for complete course descriptions.

### NEW! M.Ed. in Curriculum & Instruction: Autism Studies Option

Interested candidates must first apply to and complete the Online Certificate in Behavioral Intervention in Autism, and then they may apply to the Graduate School of Education's online M.Ed. in Curriculum and Instruction: Autism Studies Option. If accepted, they may transfer all their autism certificate credits towards that degree. Note: This is a non-licensure option.

For more information on this new program option, please email [Vera\\_Ossen@uml.edu](mailto:Vera_Ossen@uml.edu)



### NEW! Study in Italy This Summer!

UMass Lowell to offer Two 3-Credit Courses in Matera, Italy

May 27-June 25, 2009



#### Italian Cinema and Culture

Explores the major films, directors and actors of Italian Cinema. variety of genres will be studied including Neorealism, Commedia all'Italiana, Italian Surrealism, Spaghetti Westerns, 1970's films as well as a number of contemporary works.

Course #52.378-041; 3 credits. Tuition: \$870, plus the \$30 registration fee.

Also available in Matera this Summer:

#### Italian 2 and Culture

Course #52.102-041; 3 credits. Tuition: \$870, plus the \$30 registration fee.

Lodging: \$500 furnished apartment with kitchen. Airfare and other transportation, books and materials not included.

For additional information, please visit <http://continuinged.uml.edu/matera.htm>

### Leadership & Learning: Professional Learning Communities

An Innovative Forum for Educators and School Systems Committed to Improving the Quality of Learning through Reflective Practice

NEW!

Learn to lead a PLC and receive online support into the school year. This unique course combines a mix of on-campus and online sessions, providing teachers with strategies, practical training, and the intellectual foundation necessary to lead a confident, thoughtful learning community. This highly-interactive program will allow members plenty of opportunity to network with fellow educators and colleagues from neighboring school districts. During the Fall, continuing instruction, coaching and support is provided online. The program concludes with an on campus weekend wrap-up session, bringing participants together for a final review.

Course #05.630-041. Tuition: \$1425, plus the \$30 registration fee.

This 3-credit, graduate course can be counted towards UML's Master's Degree or C.A.G.S. in Curriculum & Instruction and the Ed.D. in Leadership in Schooling after consultation with and permission of an advisor.

#### Program Schedule

- One Week, On-Campus Session: July 6-10, 2009, M-Th: 9am-3pm; Fri: 9am-Noon
- Three Weeks of Online Class Sessions Held during the weeks of Sept 13-19, Oct 4-10, Oct 25-31; Meetings include 1-hour live chats on Mondays at 7:30pm, plus ongoing threaded discussions on work in progress.
- One Weekend, On-Campus Wrap-Up Session: November 6 & 7; Fri: 5-9pm and Sat: 9am-Noon

For more information, contact Professor James Nehring at [James\\_Nehring@uml.edu](mailto:James_Nehring@uml.edu)

UMass Lowell Summer Courses — Bringing You One Step Closer to Your Degree!

## REGISTRATION FORM FOR COURSES

Note: Please remember to fill in your work, home phone numbers and email address. This will allow us to reach you in case of class cancellations.

### University of Massachusetts Lowell

Registrar's Office (978) 934-2550

883 Broadway St, Dugan 101, Lowell, MA 01854-5129

PLEASE USE INK AND PRINT

#### CHECK APPROPRIATE REGISTRATION STATUS:

☐ Undergraduate Credit ☐ Graduate Credit ☐ Noncredit

Citizenship ☐ US ☐ Other

International Students – Type of Visa (if not U.S. citizen):

H1 H4 J2 L1 L2 TN TD

Student ID/SSN# (for new students only):

Name

Street & No.

City & State

Zip Code

Date

Gender ☐ M ☐ F

Date of birth

Work phone

Home phone

Cell phone, for emergency purposes

Email

Company name

Street address

City & State

Zip Code

Change of name or address since last registration?

☐ yes ☐ no

Former name

Signature

#### COURSES FOR WHICH YOU ARE REGISTERING

ISIS Class No.	Course Number	Course Title	Credits/Contact Hrs.
		SUMMER I	
		SUMMER II	

#### Tuition and Fees

##### Tuition

Registration Fee  
(\$30 per Term)

Total \$

Please do not send payment. You will be billed for tuition and fees by the University.

Confirmation of your registration will be under your account at <http://isis.uml.edu>. (A user ID and password will be sent to you by mail upon receipt of your registration.)

#### Verification of Baccalaureate Degree:

Only for students who are not matriculated into a Graduate Program and are registering for Graduate courses. An unofficial transcript must be submitted within 30 days of registration.

Institution

Major

Degree Earned

Degree Date